TOSHIBA

FILE NO. 030-200402

SERVICE MANUAL

COLOUR TELEVISION

PW33 Chassis

42PW33Q

Jun. 2004 (YC/X)

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 31)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

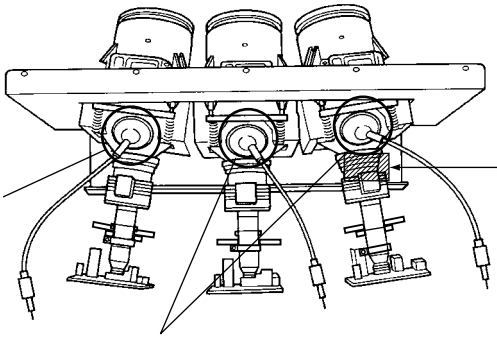
1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

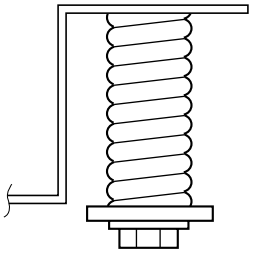
Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

CRT ASSEMBLY REPLACEMENT AND MOUNTING

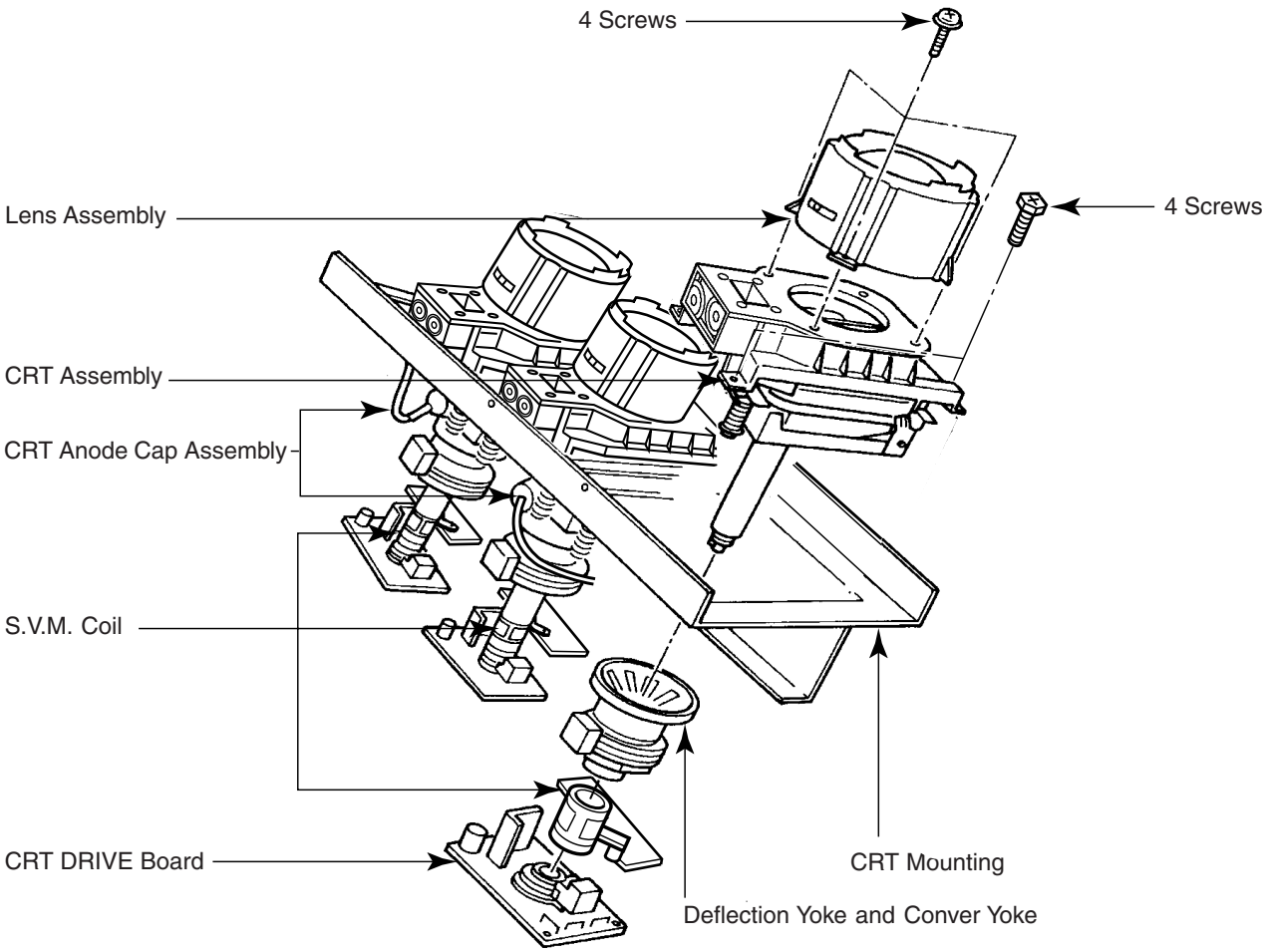
CAUTION : DO NOT LOOSEN THE HEX HEAD BOLTS WITH SPRINGS (12 PCS), BECAUSE THOSE ARE FOR SEALING OF CRT COOLANT.



Attention Serviceman



The Hex Head Bolts with Springs. (see sketch) used on CRT assembly, are "NOT" Adjustment Screws DO NOT LOOSEN-FLUID LEAKAGE WILL OCCUR.



Lens and Neck Components View

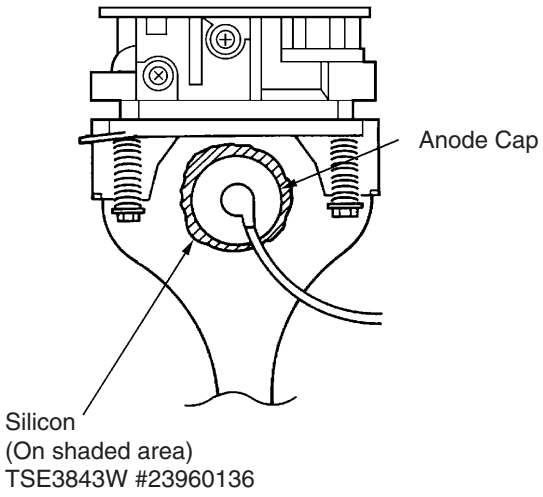
TO REMOVE CRT (Same procedure for R, G, B)

1. Remove CRT DRIVE Board, S. V. M. COIL and DEF. YOKE from CRT.
2. Remove Lens Assembly.
3. Detach CRT Anode Cap from CRT.
4. Remove CRT Assembly from CRT Mounting.

CRT REPLACEMENT (Same procedure for R, G, B)
Reverse the removal procedures except the followings.

1. Anode Cable should be replaced with new one. See "SERVICING PRECAUTIONS" shown below.
2. Install silicon (T461B) to the CRT, replace the Anode cable and put enough silicon again on around the Anode Cap as illustrated.

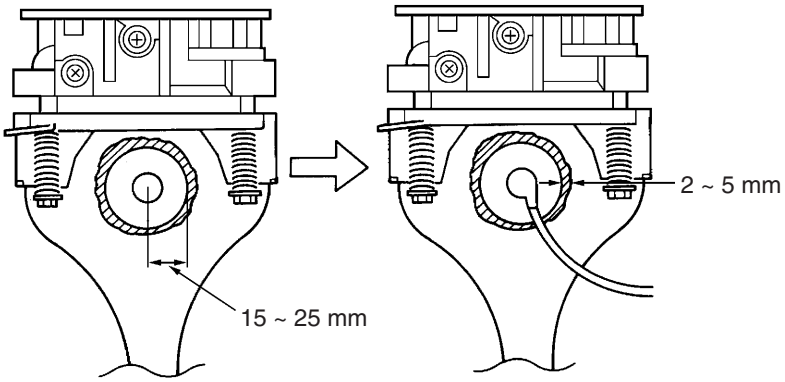
CAUTION: Align the Anode cable as illustrated on page 4.



ADJUSTING PROCEDURE IN REPLACING CRT

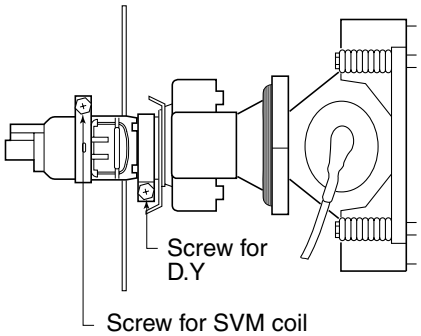
1. R.G.B. CUTOFF (SCREEN VR) ADJUSTMENT (page 6.)
2. R.G.B. FOCUS ADJUSTMENT (page 6.)
3. PICTURE TILT ADJUSTMENT (page 7.)
4. USER CONVERGENCE CENTER CHECK (Refer to owner's manual.)
5. CENTERING ADJUSTMENT (page 7.)
6. CONVERGENCE ADJUSTMENT (page 21.)
7. WHITE BALANCE ADJUSTMENT (page 14.)

Adjustments are complete.



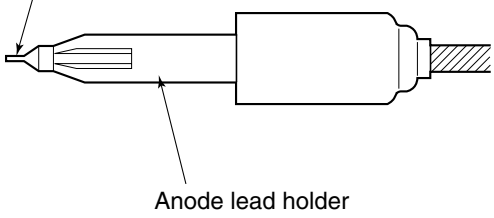
SERVICING PRECAUTIONS

■ Do not use a magnetized screw driver for screws of Deflection Yoke and Velocity Modulation Coil to avoid magnetization of electron gun. Magnetization of electron gun will degrade basic function and result in unbalance of right and left shift of user static convergence, and result in no variable quantity.



■ When replacing the anode cap assembly (CRT) or anode lead assembly (F.B.T.), remove the anode lead holder from old one and attach the holder again to new anode lead.

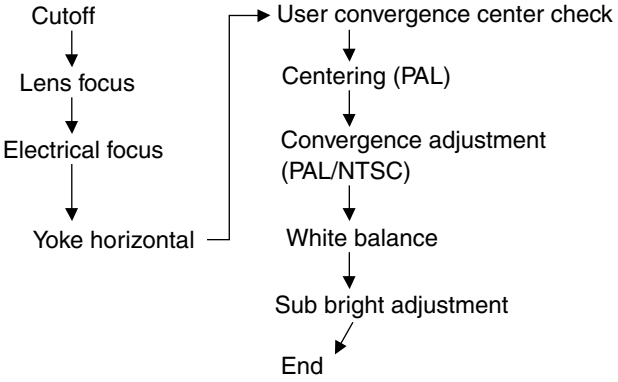
■ Check the point of anode lead in a straight line, if it is winding, please revise it.



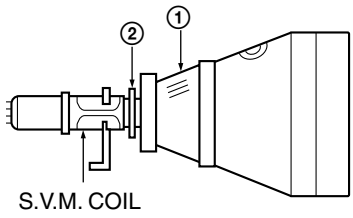
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

PICTURE TUBE COMPONENTS ADJUSTMENT

ADJUSTING PROCEDURE IN REPLACING CRT



DESCRIPTION OF NECK COMPONENTS



① Deflection yoke and convergence yoke.
The position on the neck is required most front (CRT funnel side) and the screw is fastened after rotating yoke adjusting picture tilt.

② Centering magnet
After adjusting picture tilt, picture position is finally fixed by this magnet.
In order to get maximum margin of user convergence control for center of screen, this magnet have to be used for center convergence adjustment.

PREPARATION
Operate the receiver for at least 5 minutes.

R, G, B CUTOFF (SCREEN VR) ADJUSTMENT

1. Adjust before replace the screen assembly.
2. Set user control to reset position.
   (CONTRAST → Max
   BRIGHTNESS, COLOR, TINT → Center.)
3. Call up the adjustment mode display, then select the item RCUT.
4. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H".
5. Press the -/-- button on Remote. (Y-MUTE : ON)
6. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them.
   (Lookin to the lens in order to check the raster.)
7. Press the -/-- button on Remote. (Return to Normal Picture)

RGB FOCUS ADJUSTMENT

1. Call-up the adjustment mode (see page 10)
2. Press ⊖ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
3. Expose only RED by covering the GREEN and BLUE lenses with caps.
4. Loosen the RED lens fixing screws (refer to Fig. a), and adjust the RED lens focus to obtain the sharpest point while observing the middle and peripheral sections of the screen.

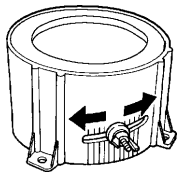


Fig. a

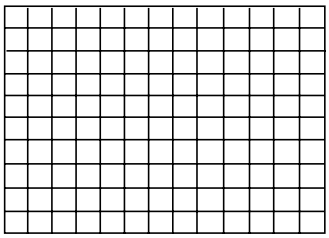
5. Use the focus VR of "R" of the focus pack in order to adjust the electric focus in the middle and peripheral sections of the screen to its sharpest level.
6. Check the RED focus of the whole screen and if necessary repeat steps 4 and 5.
7. Fix the RED lens by tightening its fixing screws.
8. Expose only GREEN by covering the RED and BLUE lenses with caps.
9. Display the internally-generated cross-hatch signal.
10. Adjust the GREEN lens focus on the left border of the screen to its sharpest level, then check the focus on the right border, and if it is at its sharpest level, fix it in that position by tightening the lens screws.

    (1) If the horizontal line toward the right border is red-flared, turn the lens screw slightly right in order to balance it with the left border. (After adjustment, the left border tends to be slightly green-flared, and the right border tends to be slightly red-flared.)
    (2) If the horizontal line toward the right border is green-flared, turn the lens screw slightly left in order to balance it with the left border. (After adjustment, the left border tends to be slightly red-flared, and the right border tends to be slightly green-flared.)

Note: The aim of the above-described adjustment procedure for the Green lens focus is to obtain the best lens focus after 2 - 3 hours of warming up taking into account the focus drift; it applies if the warming up time before the adjustment is less than 30 minutes. (The horizontal line in the screen middle section tends to be slightly red-flared.)

In case of warming up of more than 2 hours under a condition that the large anode current is running through the projection tube so that for example the all-white pattern appears, adjust to obtain the sharpest focus while observing the whole screen like in the RED case.

11. Press ⊕ button on the remote controller in order to display the internally-generated black cross-hatch. (See TEST SIGNAL SELECTION on page 11.)



12. Use the focus VR of "G" of the focus pack in order to adjust the electric focus in the middle section of the screen to its sharpest level.

Note: Normally the most clearly visible point of the scanning line is the sharpest point of the Green focus, however as the characteristics vary depending on the projection tube, the sharpest focus points of the vertical and horizontal lines may not match each other, thus when you turn the focus VR, if the picture tends to be tremendously unstable (rolls horizontally or vertically), adjust the balance of the vertical and horizontal lines to its best position.

13. Check the GREEN focus of the whole screen and if necessary repeat steps 10 and 11.
14. Fix the GREEN lens by tightening up its fixing screws.
15. Expose only BLUE by covering the RED and GREEN lenses with caps.
16. Press ⊕ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
17. Loosen the BLUE lens fixing screws (refer to Fig. a), and adjust the BLUE lens focus while observing the middle and peripheral screen sections.
18. Press ⊕ button on the remote controller in order to display the internally-generated black cross-hatch (See TEST SIGNAL SELECTION on page 11.)
19. Use the focus VR of "B" of the focus pack in order to adjust the focus in the middle section of the screen to its sharpest level.
    (The point of the Blue focus becomes sharpest when the brightness level of BLUE is lowest, the cross-hatch is clearly visible.)

Note: Keep in mind that only the BLUE electric focus is adjusted with the black cross-hatch.

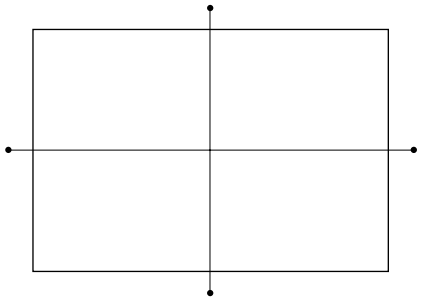
20. Check the BLUE focus of the whole screen and if necessary repeat steps 17 and 19.
21. Fix the BLUE lens by tightening its fixing screws.

PICTURE TILT ADJUSTMENT

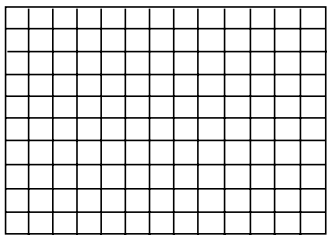
Rotate R, G, B deflection yoke so that picture becomes horizon, then fasten screw.

CENTERING ADJUSTMENT

1. Stretch a thread between two center slots of screen edge (top and bottom, left and right).



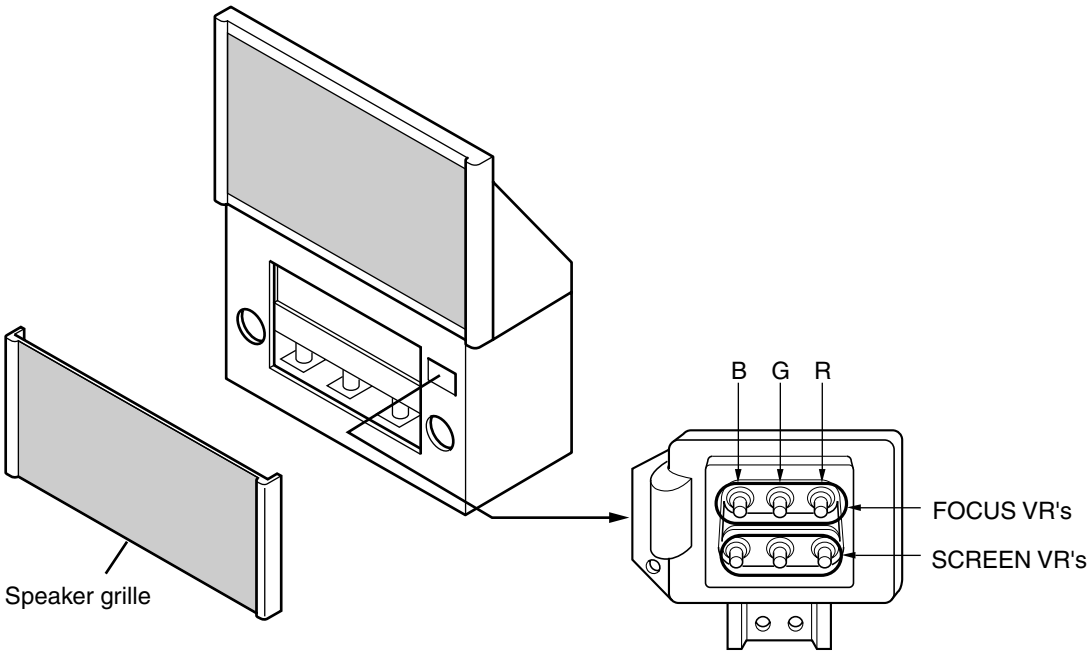
2. Select the adjustment mode. (See page 10.)
3. Press TV/VIDEO button on the Remote Control to display the black cross-hatch.



4. Adjust G centering magnet so that the cross-hatch pattern center comes to screen center.
5. Perform HEIGHT adjustment . (See page 14.)
6. Perform VERT. LINEARITY adjustment. (See page 14.)
7. Perform WIDTH adjustment. (See page 14.)
8. Check whole quality of green line.
9. Adjust R, B centering magnet so that the cross-hatch pattern center comes to screen center.

LOCATION OF SCREEN AND FOCUS VR'S

To remove the Speaker grille and Front panel.



REPLACEMENT OF HIGH VOLTAGE CABLE

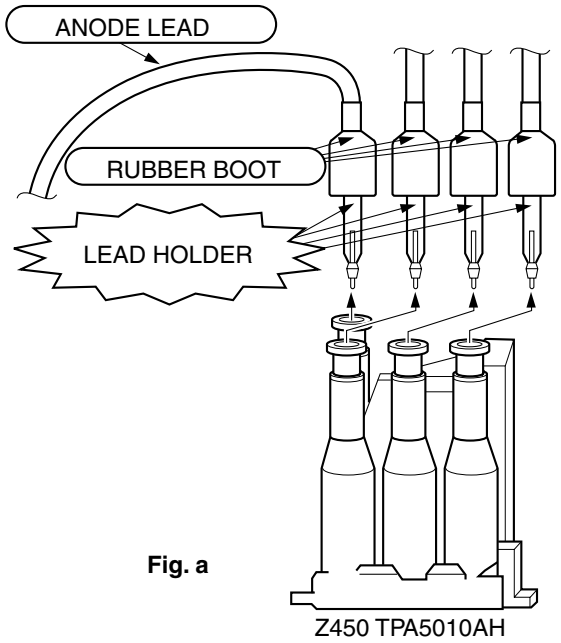


Fig. a

1. When replacing Anode Lead or Anode Cap with new one, remove Lead Holder from old lead as shown in figure below, and put it on new lead. Do not throw away Lead Holder.

NOTE : THE LEAD HOLDER IS ATTACHED TO TPA5010AH (Z450), BUT IS NOT ATTACHED TO ANODE LEAD AND ANODE CAP. RUBBER BOOT IS ATTACHED TO ANODE LEAD AND ANODE CAP.

2. Detaching Lead Holder

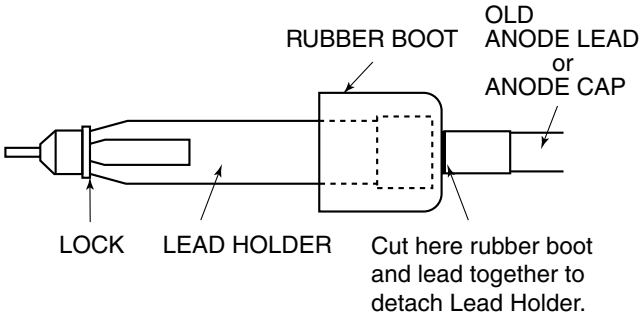


Fig. b

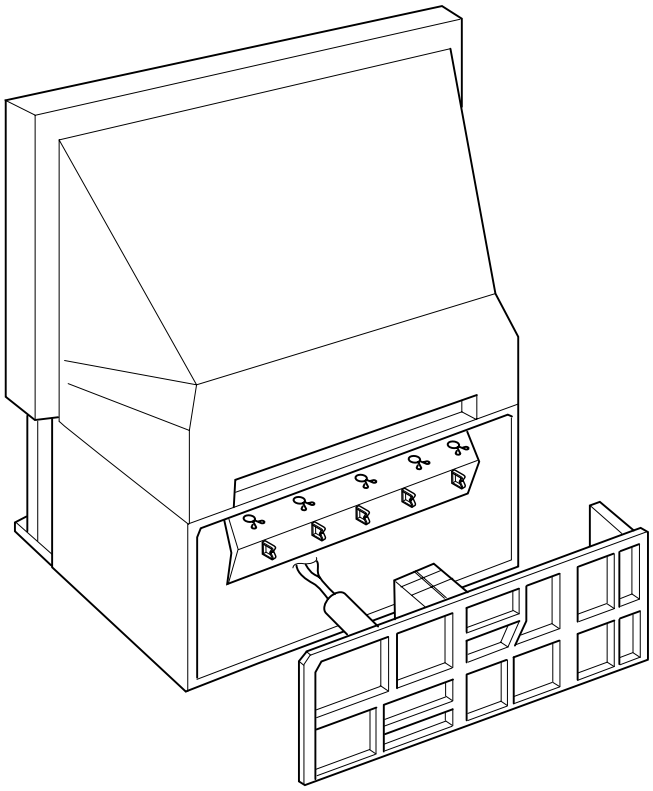
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SERVICE POSITION

In order to assure the performance, processed wires shall be replaced after the repair work.
Work procedures are as follows:

1. Remove the back board.
2. Remove lead wires.
3. Draw out the chassis.
4. Rest the chassis against the back cabinet, chassis as shown bellow.

After repair work finished, replace it in the opposite procedure.



SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

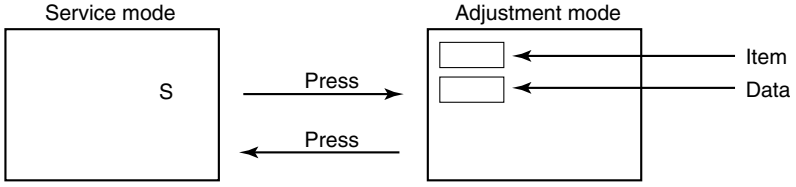
2) Press 🔇 button again to keep pressing.

3) While pressing the 🔇 button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Screen adjustment mode ON/OFF:	-/-- button (on Remote)
Test signal selection :	⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to “00”:	CALL + Channel button on TV (▼)
“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“SCNT” selection :	4 button
“COLP” selection :	5 button – – – – – Color thickness correction
“TNTC” selection :	6 button note: Displayed differently as shown below, de-
Convergence adj :	YELLOW button pending on the setting of the receiving color
Self diagnostic display ON/OFF :	9 button system.
	COLP (PAL)
	COLC (NTSC)
	COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 31)

5. ADJUSTING THE DATA

1) Pressing of VOLUME +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

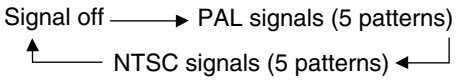
After replacing QA02, the following initialization is required.

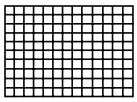
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above.
   Perform “Auto search Memory” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

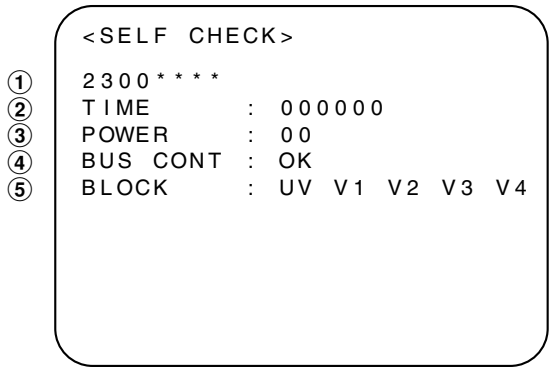


Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

* The signals marked with ■ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



Indicated color of mode now selected : Green and Red
Indicated color of other modes : Black

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.

NOTE: (1) In case that "on timer" indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that "on timer" indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

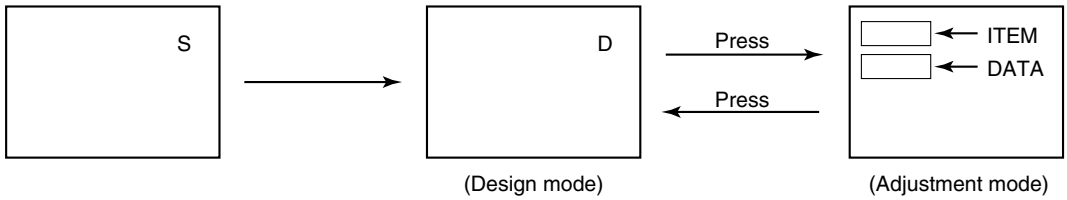
① Part number of microcomputer (QA01)
② Total hour of turn the TV on. (Unit: H)
③ Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.
④ BUS CONT ----“OK” is normal.
When indication shows “Q○○○ NG”, the device with the number may possibly be damaged.
⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (→1)
V2 : VIDEO 2 input mode (→2)
V3 : VIDEO 3 input mode
V4 : VIDEO 4 input mode

* The items marked with ■ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.



(Design mode) (Adjustment mode)

When QA02 is initialized, items “OPT0”, “OPT1” and "OPT2" of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0”, “OPT1” and "OPT2".

2. SELECTING THE ADJUSTING ITEMS

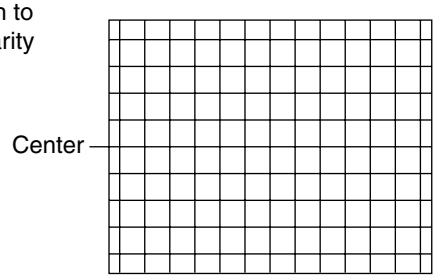
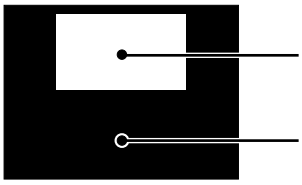
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3. (▲ button for reverse order)

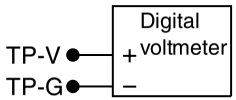
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 31)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENT

ITEM	ADJUSTMENT PROCEDURE
WIDTH (WID)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the VOLUME ▼ button to get the picture so the left or right edges of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 10 steps. Note : Check the horizontal picture position is correct.
VERTICAL LINEARITY (VLIN)	1. Call up the adjustment mode display, then select the item **VLIN**. 2. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. 3. Press the VOLUME ▲ or ▼ button to obtain the picture of the best linearity 
HEIGHT (HIT)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▼ button to get the picture so the top or bottom of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 11 steps. Note : Check the vertical picture position is correct.
WHITE BALANCE (RCUT) (GCUT) (BCUT) (RDRV) (BDRV)	Black and White pattern  1. Set user control to reset position. (CONTRAST → Max BRIGHTNESS, COLOR, TINT → Center.) 2. Call up the adjustment mode display, then select the item RCUT. 3. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H". 4. Press the -/-- button on Remote. (Y-MUTE : ON) 5. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them. (Lookin to the lens in order to check the raster.) 6. Press the -/-- button on Remote. (Return to Normal Picture) 7. Press the ⊖ button on Remote, and select the Black and White pattern. 8. Adjust the data of items **RCUT**, **GCUT** and **BCUT** for proper white-balanced picture in low light area. 9. Adjust the data of items **RDRV** and **BDRV** for proper white-balanced picture in high light area. 10. Check the white balance in both low and high light areas. If necessary, perform again steps from 8 to 9.

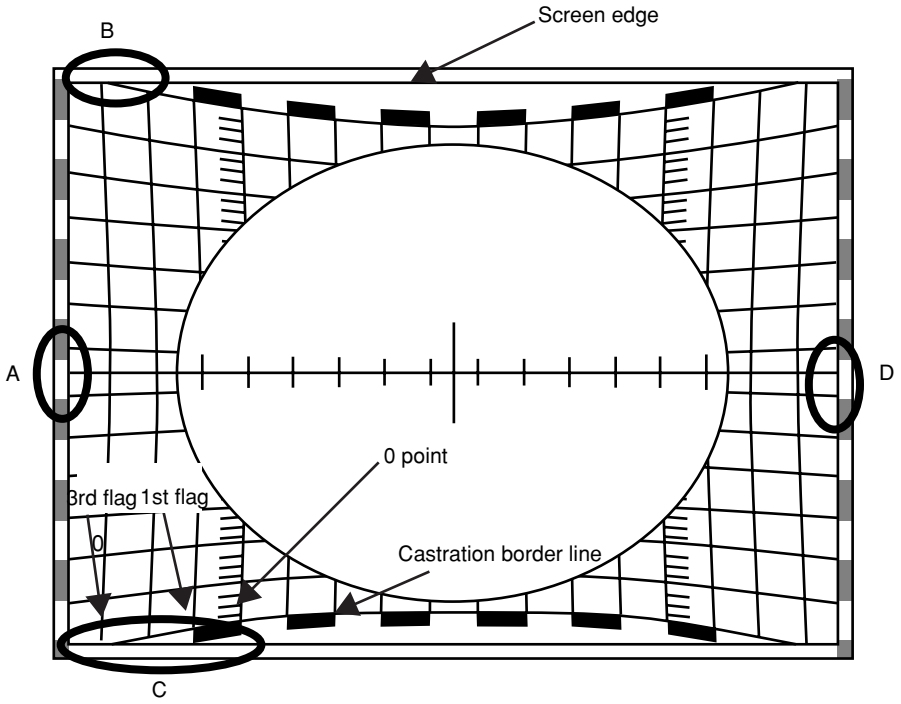
Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
SCNT	Sub-contrast	Picture mode 1 Audio system: I WIDE mode	Sub-bright signal (PAL-I signal)	TP03 SIGNAL unit	1) Adjust amplitude from the pedestal level up to the white peak	0.7 ± 0.05Vpp
BRTC	Sub-bright center	Picture mode 1 WIDE mode	Sub-bright signal	Screen adjustment	1) Adjust the number of black collapsed lines of sub-bright signals 2) Adjust after adjusting W/B, SCNT	4 ± 1.5 lines
COLP	Sub-color center PAL	Picture mode 1 WIDE mode	Sub-bright signal (PAL)	TP02 SIGNAL unit	1) Adjust the amplitude of the color bar 2) Adjust the P-P value of the upper half	0.25 ± 0.05Vpp
COLS	Sub-color center SECAM	Picture mode 1 WIDE mode	SECAM color bar	TP02 SIGNAL unit	1) Adjust the amplitude of the color bar (Apply picture mute at the time of adjustment) 2) Adjust the P-P value of the upper half	0.52 ± 0.05Vop
SRY	SECAM R-Y Black level		SECAM color bar	TP02 SIGNAL unit	1) Adjust so that the level of black and white signal part can be aligned with the level of H.BLK	0 ± 10mV
SBY	SECAM B-Y Black level		SECAM color bar	TP01 SIGNAL unit	1) Adjust so that the level of black and white signal part can be aligned with the level of H.BLK	0 ± 10mV
Screen adjustment	Screen	Factory screen adjusting mode		CRT tubular screen	1) Darken the environment as much as possible 2) Set to factory-set screen adjusting MODE (Y mute, DRV.CUT=40H) 3) Directly observe the surface of Cathode Ray Tube and adjust the screen VR to the point that starts lighting 4) Make above-mentioned adjustments for each tube of G, R, and B.	Point that starts lighting
Focus adjustment	Focus	Picture mode 1 CINEMA mode	Retma signal (PAL-I) Crosshatch signal	Screen adjustment	1) Adjust to the best position by repeating electrical focus and optical focus adjustments 2) Use the jig and shade the CRT except the axes under adjustment 3) Make above-mentioned adjustments for each tube of G, R, and B.	For details, refer to [focus adjusting method] introduced in the next page.
RDRV BDRV	Bright part W/B			Screen adjustment	1) Adjust the color temperature of the bright part (103cd/m^2).	8750k-0.002uv
RCUT BCUT	Dark part W/B			Screen adjustment	1) Adjust the color temperature of the dark part (17cd/m^2)	8750k-0.002uv
VCEN	Voltage Adjustment	Picture mode 1 WIDE mode	Phillips Pattern (PAL-1)	Between TP-V and TP-G	1) Connect a digital voltmeter between TP-V and TP-G and adjust it to 10 ± 10mV by 	10 ± 10mV

Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
Adjustment of screen position		Picture mode 1 Dynamic mode	Phillips Pattern (PAL-I)	Screen adjustment	1) Adjust the vertical and horizontal screen positions using the centering magnet so that the center cross mark of the dummy screen and the cross mark of the Phillips pattern can overlap precisely. This will be carried out individually for the tubes of R, G, and B. (Caution) Do not move HPOS and VPOS data.	Under ø7mm
STRP	Cnvergence phase adjustment	Dynamic mode WIDE mode	Philips Pattern (PAL-I)	Screen adjustment	1) Adjust the center cross mark of the convergence tool pattern and center cross mark of the Philips pattern can overlap precisely.	
HIT VLIN	Vertical amplitude adjustment PAL WIDE	Dynamic mode WIDE mode	Philips Pattern (PAL-I)	Screen adjustment	1) Set the muted convergence. 2) The point where the 2nd vertical line outer from the upper and lower register marks is overlapped with flags contacts the screen edge as described on page 17. 3) Subsequently, lengthen the vertical amplitude by HIT data until either up or down flag end is aligned with the screen end. (Align the center cross markon the screen to the vertical center of the pattern)	
WID	Horizontal amplitude adjustment PAL WIDE	Dynamic mode WIDE mode	Philips Pattern (PAL-I)	Screen adjustment	1) Set the muted convergence. 2) lengthen the horizontal amplitudewith the WID data so that the total number of marks will come to 10. 3) Confirms that adjustment of the user center position becomes to 0. (Refer to page 17)	
HIT	Vertical amplitude adjustment PAL SUPERLIVE	Dynamic mode SUPERLIVE mode	Philips Pattern (PAL-I)	Screen adjustment	1) Set the screen size to SUPERLIVE. 2) Adjust with the HIT so that upper and lower inner circle marks of Philips pattern is overlapped with flags contacts the screen edge. (Refer to page 17.) (Caution) Do not make VLIN adjustment.	
HIT	Vertical amplitude adjustment PAL CINEMA	Dynamic mode CINEMA mode	Philips Pattern (PAL-I)	Screen adjustment	1) Set the screen size to CINEMA. 2) Adjust the upper and lower marks of Philips pattern is overlapped with flags contacts the screen edge as described on page 17. (Caution) Do not touch to the centering magnet.	

Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
HIT	Vertical amplitude adjustment PAL SUBTITLE	Dynamic mode SUBTITLE mode	Philips Pattern (PAL-I)	Screen adjustment	1) Set the screen size to SUBTITLE. 2) Adjust the upper and lower marks of Philips pattern is overlapped with flags contacts the screen edge as described on page 17. (Caution) Do not touch to the centering magnet.	
NHIT NLIN	Vertical amplitude adjustment NTSC WIDE	Dynamic mode WIDE mode	Monoscope signals NTSC LEADER-435B	Screen adjustment	1) Set the screen size to WIDE. 2) The first mark on the upper side of the screen is to be hidden by the mask.	
NHIT	Vertical amplitude adjustment NTSC SUPERLIVE	Dynamic mode SUPERLIVE mode	Monoscope signals NTSC LEADER-436B	Screen adjustment	1) Set the screen size to SUBTITLE. 2) Make adjustments so that 3rd line on the upper part of the screen will come in contact to the screen end. (Caution) Do not make NVLI adjustment.	
NHIT	Vertical amplitude adjustment NTSC CINEMA	Dynamic mode CINEMA mode	Monoscope signals NTSC LEADER-437B	Screen adjustment	1) Set the screen size to CINEMA. 2) Make adjustments so that 30 charactors on the upper, lower, left and right part of the screen will come in contact to the screen end.	
NHIT	Vertical amplitude adjustment NTSC SUBTITLE	Dynamic mode SUBTITLE mode	Monoscope signals NTSC LEADER-438B	Screen adjustment	1) Set the screen size to SUBTITLE. 2) Make adjustments so that 5th line on the upper part of the screen will come in contact to the screen end. (Caution) Do not make NVLI adjustment.	
NWID	Vertical amplitude adjustment NTSC WIDE	Dynamic mode WIDE mode	Monoscope signals NTSC LEADER-435B	Screen adjustment	1) Set the screen size to WIDE. 2) Adjust the 2.5 line left registor mart to the left screen end.	

Deflection amplitude setting for 42PW33Q (HIT/WID adjusting method under muted convergence)

* Green pattern under the muted convergence



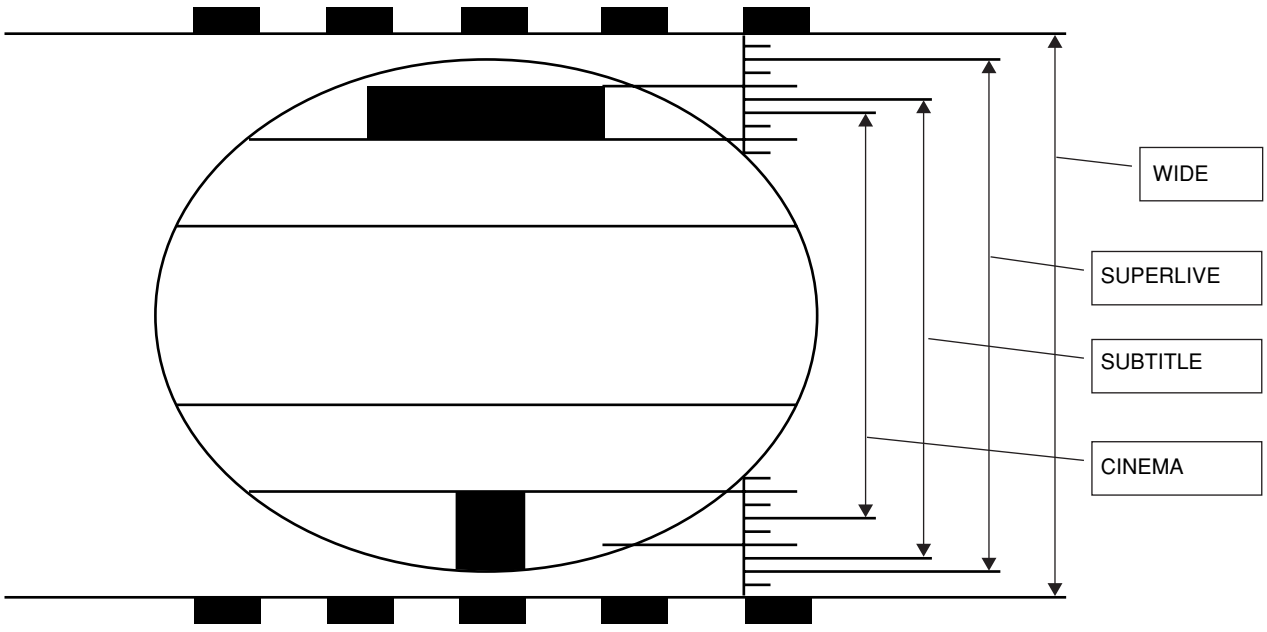
Horizontal amplitude: Left and right register marks of Philips pattern C + D = **10** (See A of the upper figure.)

Vertical amplitude: The point where the **2nd** vertical line outer from the upper and lower register marks of Philips pattern is overlapped with flags contacts the screen edge. If the amplitude is uneven horizontally and vertically, make HIT adjustment so that B shown in the upper left of the upper figure comes to contact the screen edge .

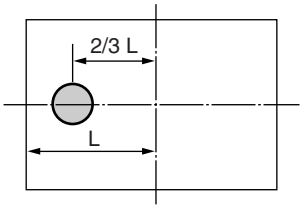
Next, pay attention to the C point. Check and confirm that the castration border line contacts through 1st line to 3rd line outer from the lower register mark.

Vertical amplitude adjusting method after adjusted convergence

1 Make adjustment on the basis of the upper screen.
2 Do not make VLIN adjustment for SUPERLIVE.
3 Screen adjusting range: ±1



Adjustment items	Adjusting methods
Focus adjustment	(Conditions) - User adjustment : Dynamic mode, Cinema mode - To be performed after centering magnet adjustment. - Signal : Lens: R .... Retma Pattern (PAL) G .... Crosshatch (PAL) B .... Crosshatch (PAL) Electrical focus : R .... Retma Pattern (PAL) G .... Crosshatch (PAL) B .... RetmaPattern (PAL) (Adjustment) 1. Common item 1) Make coarse adjustments in advance on the lens focus and electrical focus of each R, G, and B tube. 2. G adjustment 1) Set to the G monochrome by lens cap. 2) Receive the image of crosshatch. 3) Adjust the G electric focus. Adjust the G electrical focus by the focus volume of focus block (Z410) so that the screen center will come to optimum focus. (Although the G electrical focus is to be adjusted to allow the scanning lines in the center of the screen to be seen most clealy, if G alignment and astigmatism are inferior with the appearance of vertical and horizontal flares in the center of and around the screen and if the lines become thicker, adjust to the best point observing the entire screen.) 4) Adjust the G lens focus. Watch the horizon of the left and right both ends of the screen make optimum adjustments on the G lens focus, and check that the focus balance on the right and left is satisfactory. 5) Repeat 3, 4, and attempt to further improve the focus quality.

Adjustment items	Adjusting methods
Focus adjustment	Concerning items 1), 2), 3), and 5) of G adjustment, these are common to the ones on the previous page. 3. R adjustment 1) Set to the R monochrome by lens cap. 2) Receive the image of Retma pattern. 3) Adjust the R electrical focus. Adjust by focus volume of the focus block (Z410) so that the screen center will come to optimum focus. 4) Adjust the R lens focus. Adjust so that the screen center will become the best. 5) Repeat 3, 4, and attempt to further improve the focus quality.
Focus adjustment	4. B adjustment  1) Set to the B monochrome by lens cap. 2) Receive the image of Retma pattern. 3) Adjust the B electrical focus. Adjust the B electrical focus by using the focus volume of the focus block (Z410) so that the scanning lines at 2/3 L from the center can be seen most clearly. 4) Receive the image of crosshatch pattern. 5) Adjust the B lens focus. Pay attention to the border of the blue line and the black (background) in the vicinity of the screen center. First of all, make coarse adjustments of the lens, and move the lens adjusting screw to the right at the point being considered as the best focus. Then, the lines of the border become clear. Check and confirm under the circumstance that a flare appears. On the contrary, if the lens adjusting screw is moved to the left from the situation, the flare will disappear, and at this point you will find a point from which the borderline itself begins to go out of focus. Adjust to the very point where the focus begins to go out.

CONVERGENCE ADJUSTMENT

1. SCREEN ADJUSTMENT

The adjustment is carried out on four screens; Wide, S.Live, Cinema, S.title in both PAL and NTSC modes. When making the adjustments, feed an external signal to make an synchronization.

Note:

The convergence circuit is a circuit to eliminate screen distortion and can not make a drastic correction such as to correct entire screen size. An excessive correction may actuate the protection circuit. So a care will be necessary.

Before proceeding to the adjustment for each screen, always perform the adjustments for vertical size (HIT) and horizontal size (WID) with the main deflection data changed.

The menu order is 1~7 .... when the vertical sync is 50 Hz. (In this case, item 8~12 are not displayed)

The menu order is 8~12 .... when the vertical sync is 60 Hz. (In this case, item 1~7 are not displayed)

1-1. Entering the Adjustment Menu

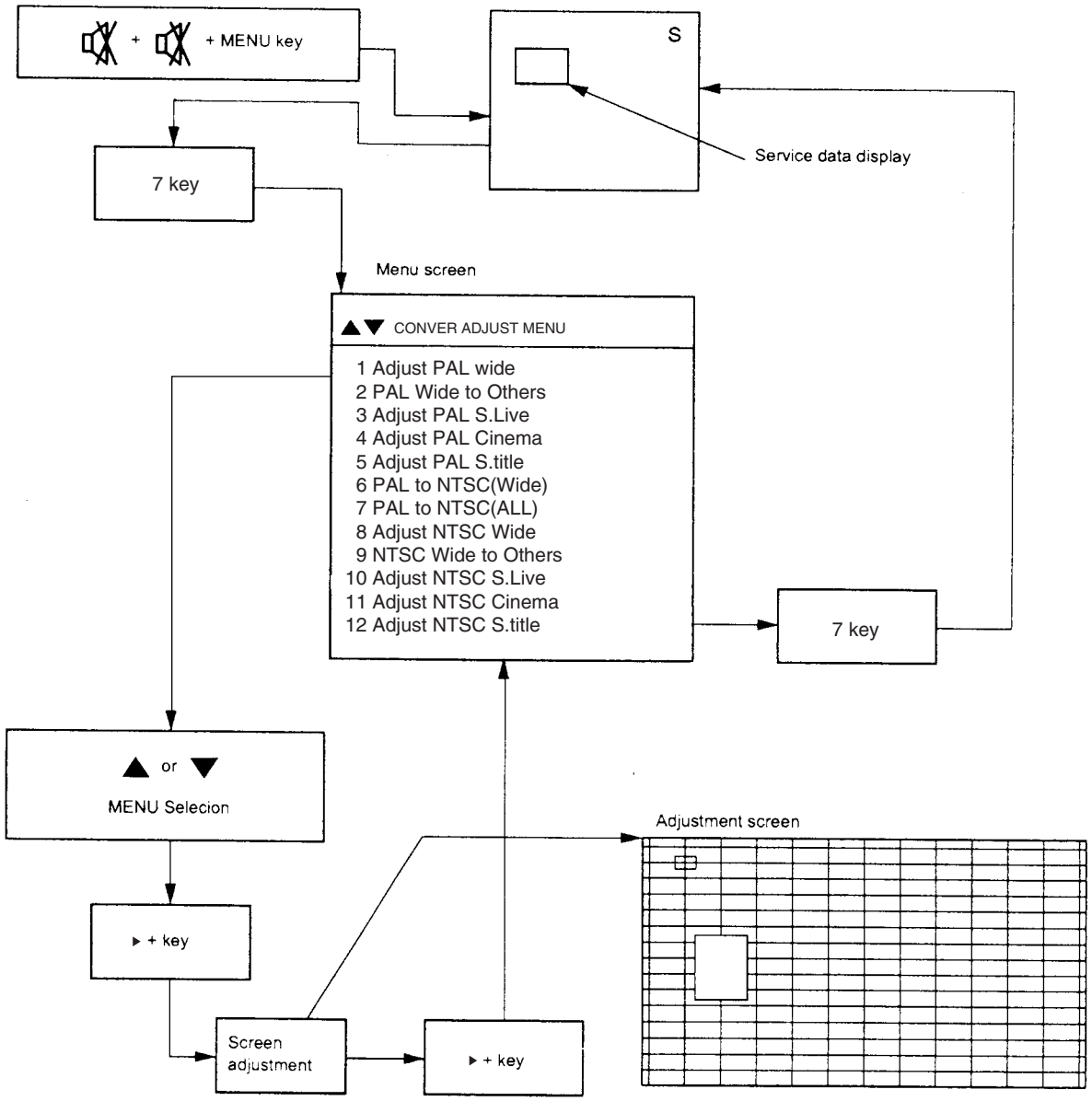
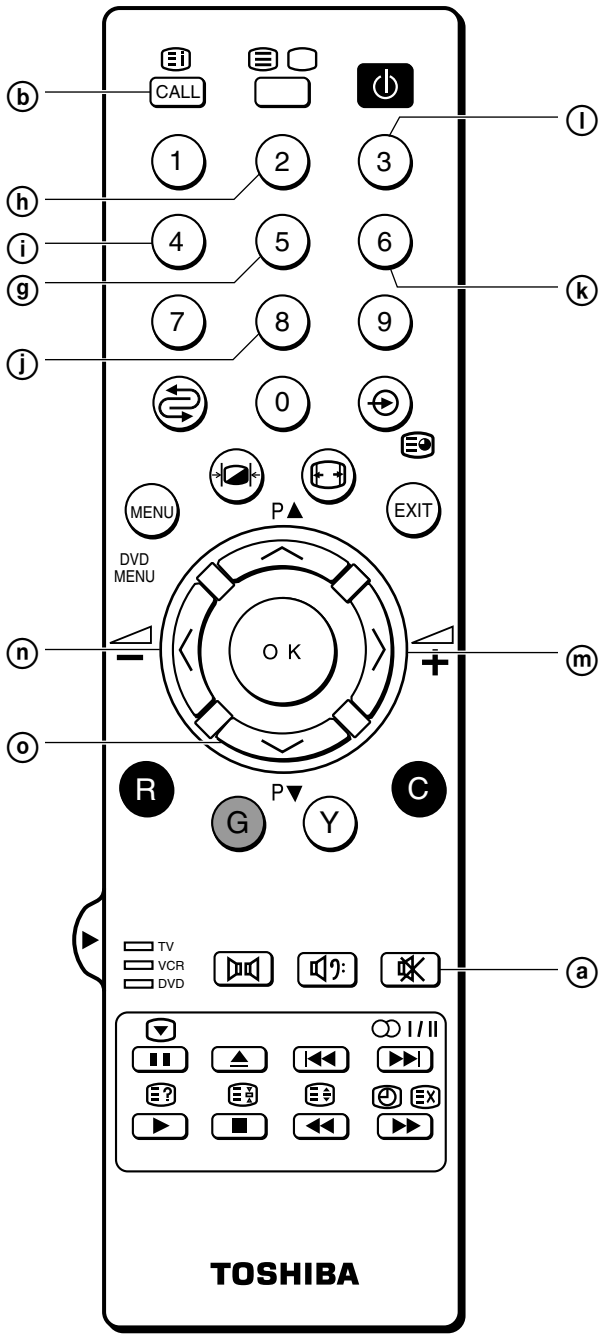


Fig. 1

1-2. Remote Control Key



ⓐ 🔇 key ..... Push this key twice and the set console menu key to enter the service mode.
ⓑ F key ..... Push this key and 7 key to enter and cancel the convergence menu.
ⓖ 5 key ..... Cursor shift / data change mode change-over.
ⓗ 2 key ..... Cursor up / adjusting point up.
ⓘ 4 key ..... Cursor left / adjusting point left
ⓙ 8 key ..... Cursor down / adjusting point down
ⓚ 6 key ..... Cursor right / adjusting point right
ⓛ 3 key ..... Cursor colour change (Adjusting colour selection).
ⓜ ▶ key ..... Execution key on convergence menu.
ⓝ ▲ key ..... Up key on convergence menu.
ⓞ ▼ key ..... Down key on convergence menu.

Fig. 2

1-3. Adjusting Screen

Note ; * Horizontal conergence adjustment makes to mask hidding addustment. (Make the desired screen size.)

No.	Items	Screen Names	Settings	Input signals	Adjusting methods	Adjusting standards
1	PAL WIDE	WIDE	Dynamic mode	Philips Pattern (PAL-I)	1) Set the screen size to WIDE. 2) Set the dummy screen for PAL WIDE, adjust the G axis. 3) Adjust R/B to the G axis.	
2	PAL SUPERLIVE	SUPERLIVE	Dynamic mode	Philips Pattern (PAL-I)	1) Set the screen size to SUPERLIVE. 2) Set the dummy screen for PALSUPERLIVE , adjust the G axis. 3) Adjust R/B to the G axis.	
3	PAL CINEMA	CINEMA	Dynamic mode	Philips Pattern (PAL-I)	1) Set the screen size to CINEMA. 2) Perform the data conversion, andadjust to correct the G axis bending. 3) Adjust R/B to the G axis.	
4	PAL SUBTITLE	SUBTITLE	Dynamic mode	Philips Pattern (PAL-I)	1) Set the screen size to SUBTITLE . 2) Perform the data conversion, andadjust to correct the G axis bending. 3) Adjust R/B to the G axis.	
5	NTSC WIDE	WIDE	Dynamic mode	Monoscope signals (NTSC) LEADER-435B	1) Set the screen size to WIDE. 2) Set the dummy screen for NTSCWIDE, adjust the G axis. 3) Adjust R/B to the G axis.	
6	NTSC SUPERLIVE	SUPERLIVE	Dynamic mode	Monoscope signals (NTSC) LEADER-436B	1) Set the screen size to SUPERLIVE. 2) Set the dummy screen for NTSCSUPERLIVE, adjust the G axis. 3) Adjust R/B to the G axis.	
7	NTSC CINEMA	CINEMA	Dynamic mode	Monoscope signals (NTSC) LEADER-437B	1) Set the screen size to CINEMA. 2) Perform the data conversion, andadjust to correct the G axis bending. 3) Adjust R/B to the G axis.	
8	NTSC SUBTITLE	SUBTITLE	Dynamic mode	Monoscope signals (NTSC) LEADER-437B	1) Set the screen size to SUBTITLE . 2) Perform the data conversion, andadjust to correct the G axis bending. 3) Adjust R/B to the G axis.	

2. Case Study

In many cases, color matching problems can be solved by returning the HIT and WID data for main deflection to the initial adjustment values. Convergence cannot be re-adjusted in the following cases.

2-1 When the CRT has been replaced

Main deflection re-adjustment and color matching are necessary when the CRT has been replaced. Use the following procedure.

1. Replace the blue and red CRTs.
2. Perform the blue and red yoke horizontal adjustments in relation to the green CRT. Press the yokes and speed modulation coils + alignments onto the CRTs and fasten after making sure that there are no gaps.
3. Adjust the blue and red alignments (refer to the detailed alignment adjustment item).
4. Use centering magnets to center the blue and red CRTs in relation to the green CRT.
5. Adjust the main deflection HIT and WID data, using the most accurate location in relation to the green as data.
6. Use convergence to match the colors for each screen. Green will not work at this time.
7. When the convergence adjustments have been completed for all screens, then replace the green CRT.

Repeat the procedures in steps 2 - 5 for the green CRT but this time use convergence to match the colors using red and blue as reference.

2-2 When replacing the convergence unit

Generally, all of the screens must be re-adjusted when the convergence unit is replaced, but the process can be greatly shortened by using the following method.

1. Replace the memory (Q711, Q712, Q713) of the new unit with the memory (Q711, Q712, Q713) of the defective unit. This makes it possible to quickly reproduce the previous screen status when installed in the set.
2. Install the new unit with the old memory in the set and turn on the power. The entire screen will move linearly in either the vertical or horizontal direction.
3. Use centering magnets to re-adjust the green, red and blue centers.
4. There is possibility of color mismatching or differences in screen size when the various screens are checked. In such case, adjust the main deflection and apply a slight amount of convergence color matching.

2-3 When none of the above cases apply (rare case)

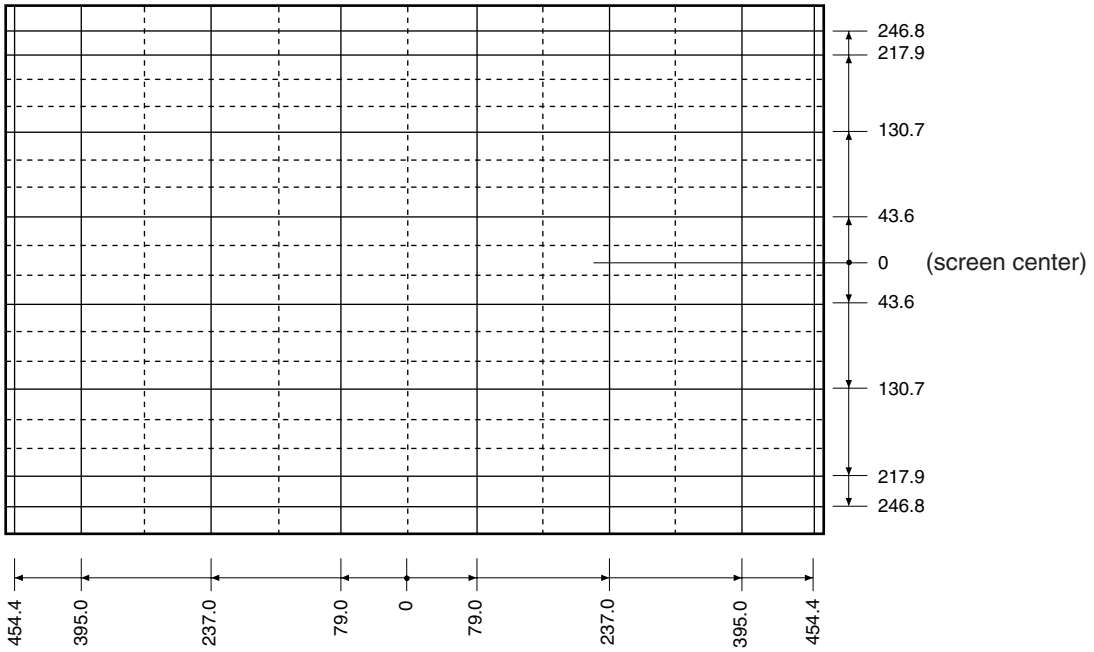
An unexpected situation or major operational error, etc., could be considered but it is recommended that all screens be matched starting from the beginning. If the initial positions of the centering magnets are unknown, disconnect the connectors for the convergence sub-yoke outputs one at a time, adjust the CRT centering and then start the following adjustments.

1. Make sure that there is plenty of room for the static cross convergence to be moved left, right, up and down. If sufficient space is not available, move to an appropriate location and then re-adjust the centering.
2. Enter the convergence adjustment mode and call out the menu. (Leave the PAL signal connected.)
3. Select 1. Adjust PAL Wide and adjust the PAL mode Wide/4:3 screen manually in accordance with the dimension diagram.
4. When the Wide/4:3 screen adjustment has been completed, return to the Main Menu and select 2. PAL Wide to others. The screen will change automatically and the Wide, Cinema and Subtitle screens will be created automatically.
5. Next, select 3. Adjust PAL S.Live and mainly adjust in the horizontal direction in accordance with the dimension diagram.
6. Next, select 4. Adjust PAL Cinema and fine adjust to remove any Cinema screen distortion.
7. Next, select 5. Adjust PAL Subtitle and fine adjust to remove any Subtitle screen distortion.
8. Next, select 7. PAL to NTSC (ALL), then calculate and copy the data for all PAL screens in the NTSC mode. At this time, the calculations and screen shape changes will be performed automatically and the NTSC screen data corresponding to the PAL screens will be transferred.
9. Select in sequence 8. Adjust NTSC Wide, 10. Adjust NTSC S.Live, 11. Adjust NTSC Cinema and 12. Adjust NTSC Subtitle, check the respective NTSC screen modes and, if necessary, adjust for any distortion.

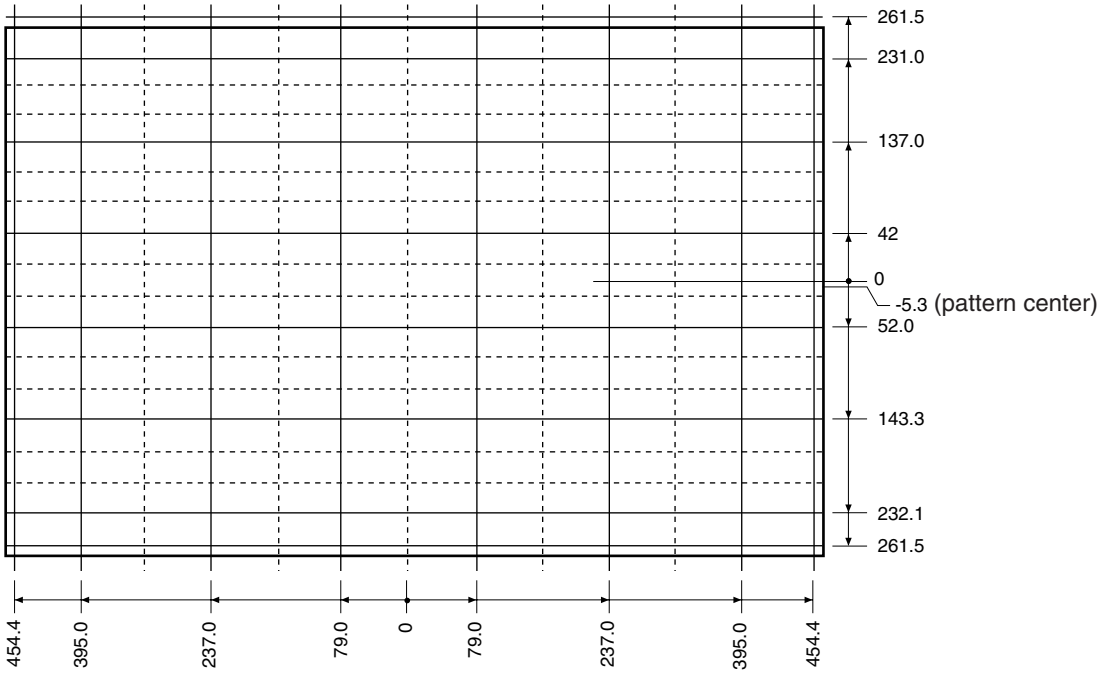
All of the screens can be adjusted with the above process but make every effort not to change the factory data unless absolutely necessary. Try not to change the convergence data any more than necessary.

3 Screen adjustment dimensions

3-1 WIDE (PAL mode)



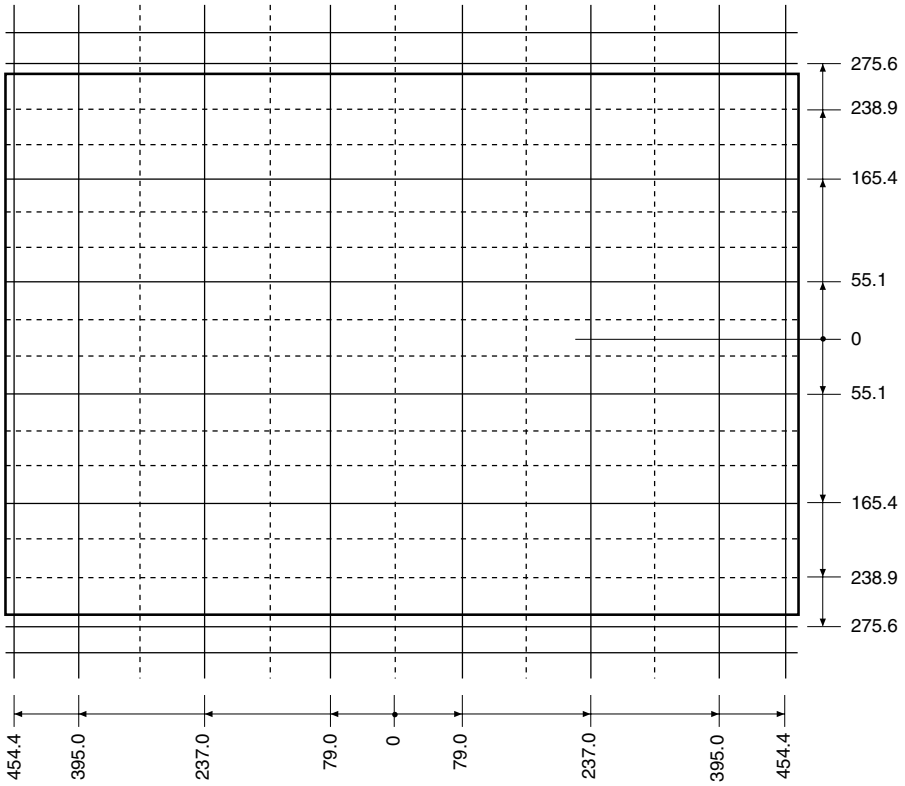
3-2 Super Live (PAL mode)



Caution: Do not perform the VLIN adjustment.

3-3 Cinema (PAL mode)

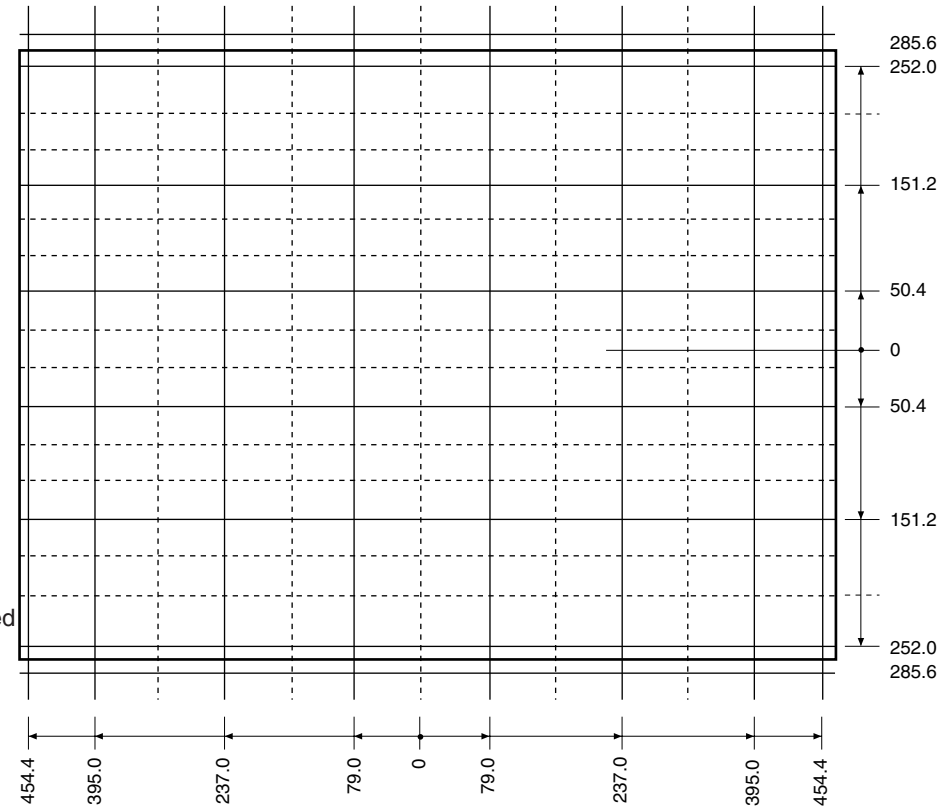
Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.



3-4 Subtitle (PAL mode)

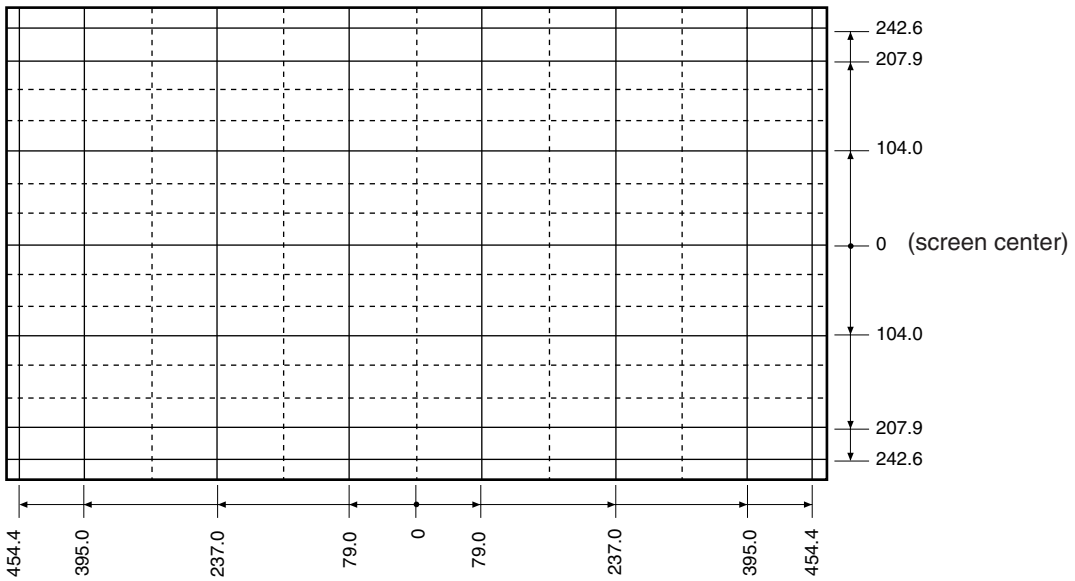
Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.

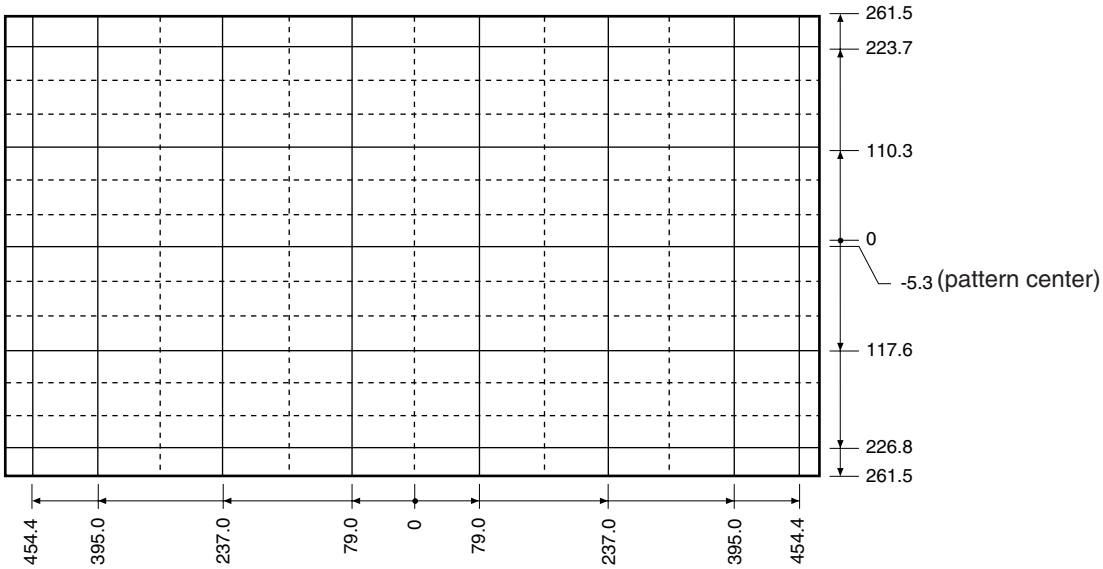


Screen limit changed

3-5 WIDE/4:3 (NTSC mode)



3-6 Super Live (NTSC mode)

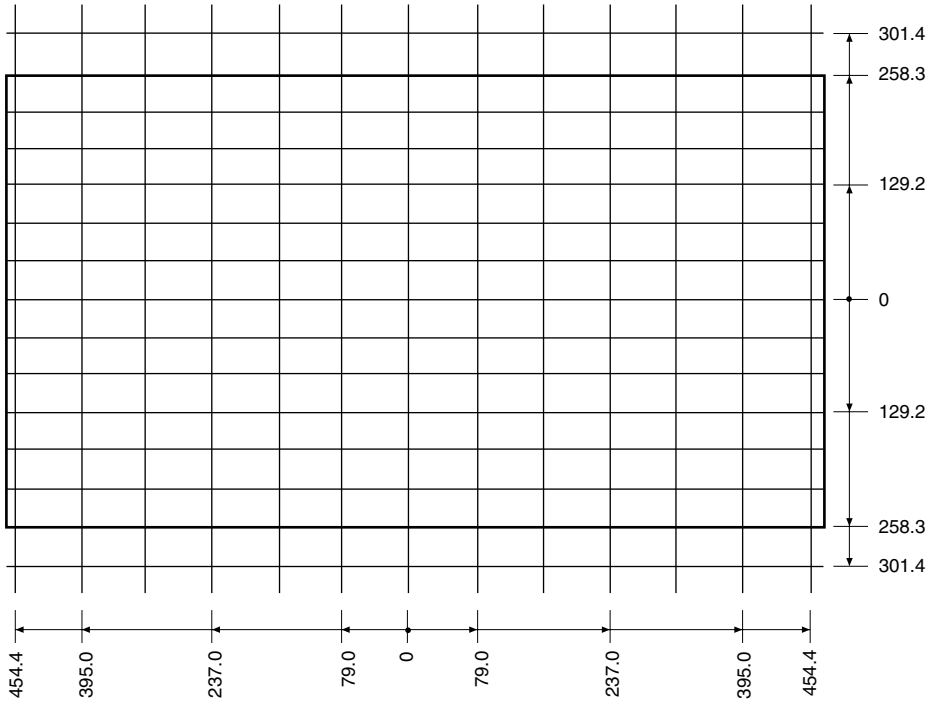


Caution: Do not perform the VLIN adjustment.

3-7 Cinema (NTSC mode)

Note: The cursor will move outside the screen limits in the Cinema mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

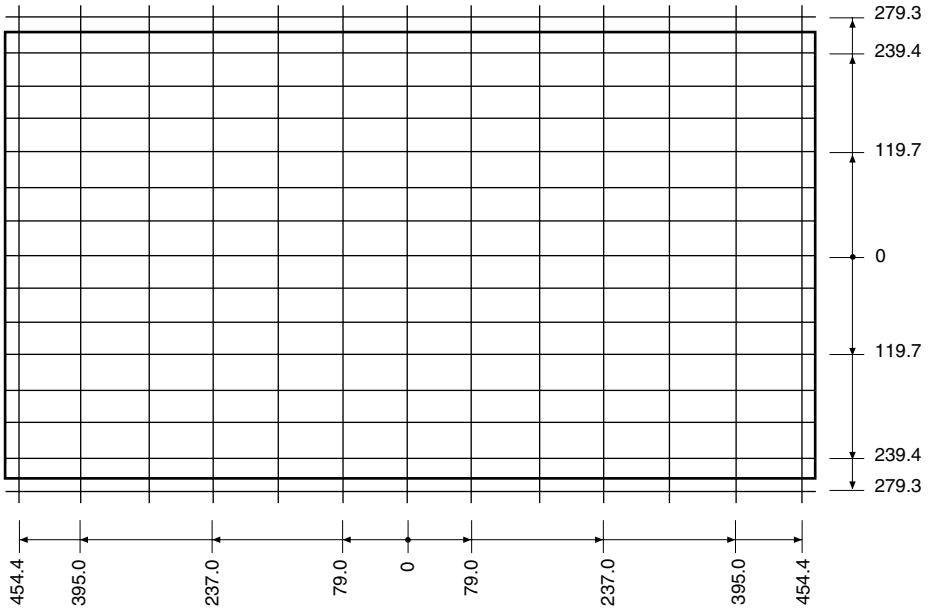
Note: Please be aware that the Cinema screen convergence pattern center is located at the center of the screen but the image center is located approximately 13mm above that.



3-8 Subtitle (NTSC mode)

Note: The cursor will move outside the screen limits in the Subtitle mode; therefore, be careful to consider the position of the cursor displayed on the screen when making adjustments.

Note: Please be aware that the Subtitle screen convergence pattern center is located at the center of the screen but the image center is located approximately 32mm above that.



SCREEN AND MIRROR ALIGNMENTS

ASSEMBLING AND MOUNTING OF FRONT SCREEN

* Please refer to MECHANICAL DISASSEMBLY page 34.

CLEANING OF LENS AND MIRROR

CAUTION : Do not hold the optical system parts (lens and mirror) with bare hand to avoid finger-prints on the surface of those parts.

HOW TO CLEAN LENS AND MIRROR

1. Be sure to remove sand dust with an air brush, etc.
2. When it is stained slightly, breathe upon it and wipe away with the specified cleaning cloth.
   For other stains than the above, wipe the stains away with the specified cloth into which a cleaning liquid has been soaked.

Cleaning liquid ..... **LENS LUSTER** (Manufactured by Edmund Scientific Co.), etc.

HOW TO CLEAN SCREEN

When cleaning the screen, use a soft cloth so as not to damage the screen.

1. Wipe the stain away with a diluted neutral detergent soaked cloth.
2. Wipe the detergent away with a water soaked cloth.
3. Wipe the screen with a dry cloth to remove moisture on the screen.

Note : Absolutely do not use alcohol, benzine, thinner, etc. for cleaning in order not to wipe away the black print on the surface.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 31)
4. Vary the BRIGHTNESS to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CAUTION:

When the following parts fail, check the High Voltage after replacing.

Location No.	Name	Name
T461	Flyback Trans.	TFB3091AS
C440	Capacitor	1500pF, ±3%
C443	Capacitor	4700pF, ±3%
C444	Capacitor	3900pF, ±3%
C467	Capacitor	12000pF, ±5%
C468	Capacitor	12000pF, ±5%

ANODE VOLTAGE MEASURING METHOD

CAUTION: Take extra precaution when measuring this high voltage. High voltages are also present in surrounding circuit boards (CRT DRIVE assembly, DEFLECTION assembly, and POWER SUPPLY assembly).

1. Disconnect the FBT anode cable as outlined below. Measure high voltage at the point where the cable enters the FBT.
2. Holding the rubber cover firmly, turn it counterclockwise and check that the lock has been disengaged. (See Fig. b on page 8.)
3. Determine the extent of the rubber cover before disconnecting the cable.
4. Pull straight up the anode cable to disconnect.
5. When reconnecting the cable, proceed in the reverse order.
   After reconnecting, tug on the cable to check that it is secure.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		42PW33Q
HIGH VOLTAGE AT ZERO BEAM:	(A)	33.3 kV
MAX HIGH VOLTAGE:	(B)	34.5 kV
AC VOLTAGE	(C)	220~240 V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Reference data
RCUT	R CUTOFF (B/W)	40H
GCUT	G CUTOFF (B/W)	40H
BCUT	B CUTOFF (B/W)	40H
RDRV	R DRIVE	40H
BDRV	B DRIVE	40H
CNTX	CONTRAST MAX	7FH
BRTC	BRIGHT CEN	80H
COLC	COLOR CEN NTSC (DFR PAL)	02H
TNTC	SUB TINT CEN	1EH
COLP	COLOR CEN PAL	05H
COLS	COLOR CEN SECAM	08H
COLD	COLOR CEN RGB YC_bC_r RGB DTV	3AH
SCON	SUB CONTRAST	05H
SRY	SECAM R-Y BLACK LEVEL	07H
SBY	SECAM B-Y BLACK LEVEL	04H
HPOS	50Hz H-POSITION	14H

Item	Adjustment	Reference data
VPOS	V-POSITION	02H
HIT	HEIGHT	2EH
GMPS	V-POSITION (RASTER)	00H
VLIN	V-LINEARITY	0FH
VSC	V-S CORRECTION	10H
VPS	V-SHIFT	18H
VCP	V-COMPENSATION	0AH
WID	PICTURE WIDTH	2BH
PARA	E-W PARABOLA	1CH
CNR	E-W CORNER	08H
TRAP	TRAPEZIUM	10H
HCP	H-COMPENSATION	00H
VFC	V-F CORRECTION	00H
VCEN	V-POSITION (RASTER)	80H
OPT3	DESTINATION SEL	00H/00H

Table-2

【 DESIGN MODE 】

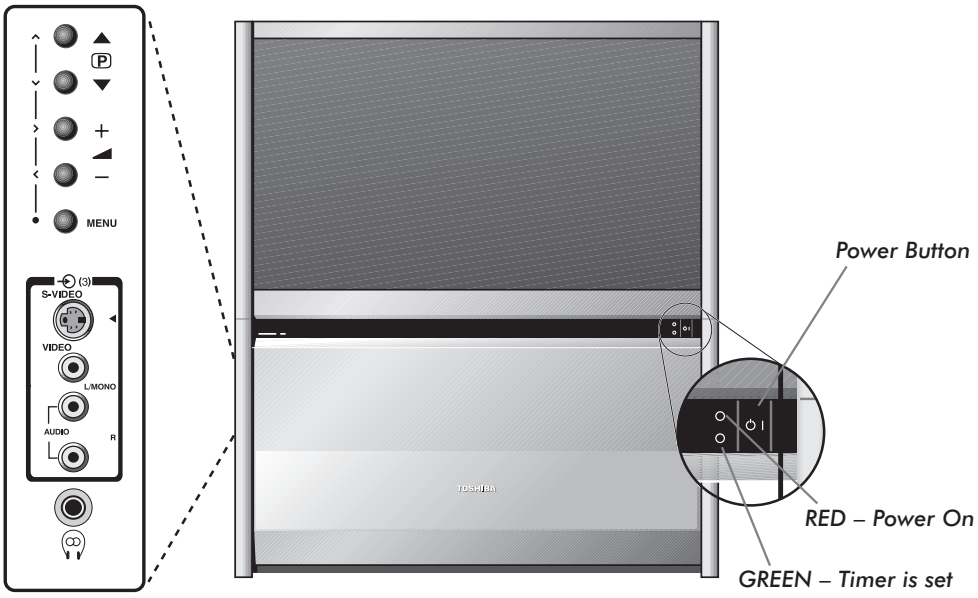
ADJUSTING ITEMS AND DATA IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data	42PW33P Initial	Remarks
OPT0	OPTION 0	80H	80H	
OPT1	OPTION 1	4CH	0CH	
OPT2	OPTION 2	20H	20H	
OPT4	OPTION 4	01H	01H	
OPT5	OPTION 5	00H	00H	

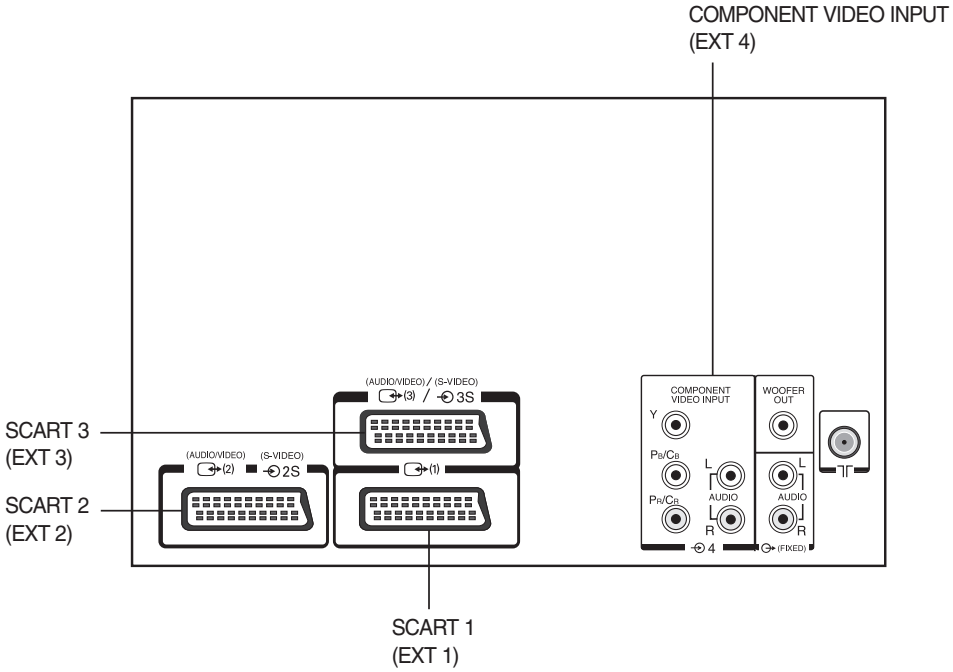
Table-3

LOCATION OF CONTROLS

Front



Back



Remote Controller

Simple at-a-glance reference of your remote control.

To display teletext

To bring up on-screen information and for the teletext initial/index function

For On/Standby mode

Number buttons

To select input from external sources
To access sub-pages when in teletext mode

To return to the previous programme

Selectable picture preferences

Widescreen viewing

On-screen Menus

To exit Menus

To change programme positions and teletext pages
To alter the volume
When using menus the arrows move the cursor on the screen up, down, left or right. **OK** *to confirm your selection*

For quick reference to topics, please see the INDEX at the end of this manual.

Teletext control buttons

No function on this model

To select mode

Bass Boost/Super Woofer

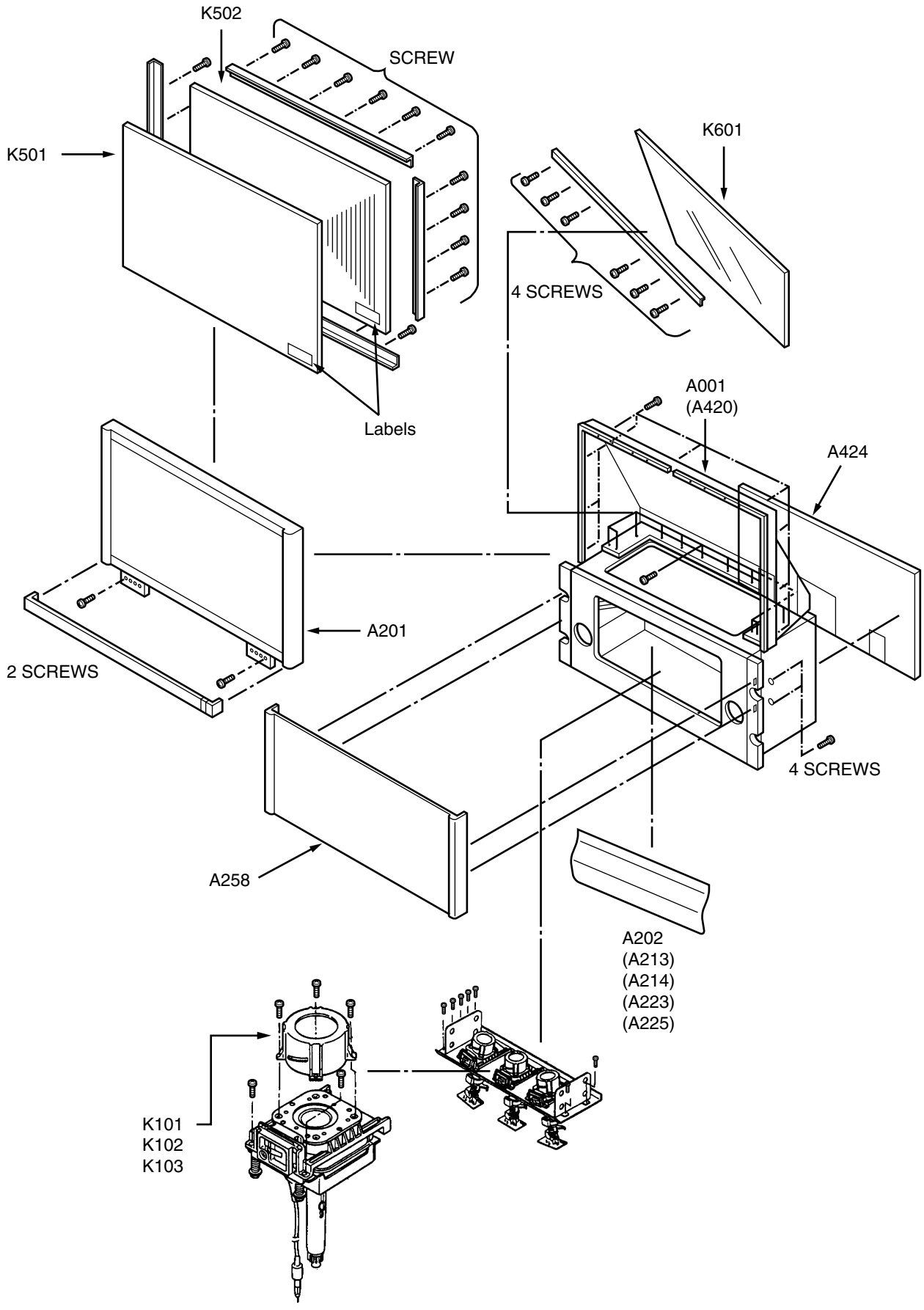
To mute the sound

When in VCR or DVD mode:
press ⏸ to PAUSE
press ⏏ to EJECT
press ⏮ to SKIP-REWIND
press ⏭ to SKIP-FORWARD
press ▶ to PLAY
press ■ to STOP
press ◀◀ to REWIND
press ▶▶ to FAST FORWARD

When in TV mode:
No function on this model
I/II *Stereo/bilingual reception*
Time display

When in Teletext mode:
To reveal concealed text
To hold a wanted page
To enlarge teletext display size
To select a page whilst viewing a normal picture

MECHANICAL DISASSEMBLY



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with ∗ mark is no longer available after the end of the production.*

Model : 42PW33Q

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
CAPACITORS		
C102	24762221	ELECTROLYTIC, 10V 220UF M
C105	24109102	CERAMIC CHIP, 50V B 1000PF K
C106	24797100	ELECTROLYTIC, 50V 10UF M
C108	24762221	ELECTROLYTIC, 10V 220UF M
C109	24109103	CERAMIC CHIP, 50V B 0.01UF K
C115	24109103	CERAMIC CHIP, 50V B 0.01UF K
C160	24567224	PLASTIC FILM, 50V 0.22UF J
C170	24567104	PLASTIC FILM, 50V 0.1UF J
C201	24092730	CERAMIC CHIP, 16V B 0.1UF K
C202	24109103	CERAMIC CHIP, 50V B 0.01UF K
C204	24669010	ELECTROLYTIC, 50V 1UF M 3A
C205	24797229	ELECTROLYTIC, 50V 2.2UF M
C206	24794220	ELECTROLYTIC, 16V 22UF M
C212	24794100	ELECTROLYTIC, 16V 10UF M
C214	24503047	PLASTIC FILM, 63V 0.33UF J
C219	24105100	CERAMIC CHIP, 50V CH 10PF D
C220	24763101	ELECTROLYTIC, 16V 100UF M
C221	24105100	CERAMIC CHIP, 50V CH 10PF D
C222	24105100	CERAMIC CHIP, 50V CH 10PF D
C261	24794101	ELECTROLYTIC, 16V 100UF M
C262	24109103	CERAMIC CHIP, 50V B 0.01UF K
C263	24085967	ELECTROLYTIC, NONPOLAR, 16V 47UF M 11L
C264	24794100	ELECTROLYTIC, 16V 10UF M
C265	24085967	ELECTROLYTIC, NONPOLAR, 16V 47UF M 11L
C266	24794100	ELECTROLYTIC, 16V 10UF M
C301	24092730	CERAMIC CHIP, 16V B 0.1UF K
C302	24092753	CERAMIC CHIP, 10V B 0.22UF K
C303	24567105	PLASTIC FILM, 50V 1 UF J
C304	24092730	CERAMIC CHIP, 16V B 0.1UF K
C305	24092730	CERAMIC CHIP, 16V B 0.1UF K
C306	24105102	CERAMIC CHIP, 25V CH 1000PF J
C307	24567105	PLASTIC FILM, 50V 1 UF J
C308	24092733	CERAMIC CHIP, 50V B 0.022UF K
C309	24105102	CERAMIC CHIP, 25V CH 1000PF J
C310	24669101	ELECTROLYTIC, 50V 100UF M 3A
C311	24109103	CERAMIC CHIP, 50V B 0.01UF K
C312	24105102	CERAMIC CHIP, 25V CH 1000PF J
C313	24666101	ELECTROLYTIC 04Q, 16V 100UF M 3A
C314	24092730	CERAMIC CHIP, 16V B 0.1UF K
C315	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C316	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C317	24109222	CERAMIC CHIP, 50V B 2200PF K
C318	24109222	CERAMIC CHIP, 50V B 2200PF K
C319	24092785	CERAMIC CHIP, 10V B 0.47UF K
C320	24669101	ELECTROLYTIC, 50V 100UF M 3A

Location No.	Parts No.	Description
C321	24669101	ELECTROLYTIC, 50V 100UF M 3A
C322	24109473	CERAMIC CHIP, 25V B 0.047UF K
C323	24109473	CERAMIC CHIP, 25V B 0.047UF K
C324	24669101	ELECTROLYTIC, 50V 100UF M 3A
C325	24503045	PLASTIC FILM, 63V 0.22UF J
C326	24092785	CERAMIC CHIP, 10V B 0.47UF K
C327	24092753	CERAMIC CHIP, 10V B 0.22UF K
C328	24082260	PLASTIC FILM, 100V 4700PF J
C329	24669100	ELECTROLYTIC, 50V 10UF M 3A
C330	24085946	ELECTROLYTIC, NONPOLAR, 16V 10UF M 3A
C332	24669221	ELECTROLYTIC, 50V 220UF M 3A
C333	24693473	PLASTIC FILM, 100V 0.047UF J
C334	24109471	CERAMIC CHIP, 50V B 470PF K
C335	24092730	CERAMIC CHIP, 16V B 0.1UF K
C336	24109473	CERAMIC CHIP, 25V B 0.047UF K
C338	24666330	ELECTROLYTIC, 16V 33UF M 3A
C339	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C340	24666330	ELECTROLYTIC, 16V 33UF M 3A
C370	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C371	24092730	CERAMIC CHIP, 16V B 0.1UF K
C401	24214821	CERAMIC DISC, 500V B 820PF K
C402	24214391	CERAMIC DISC, 500V B 390PF K
C404	24212152	CERAMIC DISC, 50V B 1500PF K
C405	24503042	PLASTIC FILM, 63V 0.12UF J
C406	24678100	ELECTROLYTIC, 200V 10UF M 3A
C412	24828104	PLASTIC FILM, 200V 0.1UF J
C415	24092484	CERAMIC DISC, 2KV B 1500PF K
C416	24828333	PLASTIC FILM, 200V 33000PF J
C417	24679229	ELECTROLYTIC, 250V 2.2UF M 3A
⚠ C423	24503281	PLASTIC FILM, 400V 0.47UF J
C426	24211222	CERAMIC DISC, 2KV B 2200PFK
C432	24567223	PLASTIC FILM, 50V 0.022UF J
C433	24567473	PLASTIC FILM, 50V 47000PF J
C440	24082823	PLASTIC FILM, 1800VH 1500PF H
⚠ C443	24503146	PLASTIC FILM, 1500VH 4700PF H
⚠ C444	24082944	PLASTIC FILM, 1500VH 3900PF H
C445	24828473	PLASTIC FILM, 200V 0.047UF J
C446	24679330	ELECTROLYTIC, 250V 33UF M 3A
C448	24640908	ELECTROLYTIC, 160V 33UF M 3A LI
C449	24214221	CERAMIC DISC, 500V B 220PF K
C460	24679479	ELECTROLYTIC, 250V 4.7UF M 3A
C463	24109103	CERAMIC CHIP, 50V B 0.01UF K
⚠ C464	24503343	PLASTIC FILM, 100V 3.3UF K
C465	24109103	CERAMIC CHIP, 50V B 0.01UF K
C466	24109472	CERAMIC CHIP, 50V B 4700PF K
C467	24820123	PLASTIC FILM, 630V 0.012UF J

Location No.	Parts No.	Description
C468	24820123	PLASTIC FILM, 630V 0.012UF J
C481	24666101	ELECTROLYTIC 04Q, 16V 100UF M 3A
C482	24092733	CERAMIC CHIP, 50V B 0.022UF K
C483	24092733	CERAMIC CHIP, 50V B 0.022UF K
C484	24109102	CERAMIC CHIP, 50V B 1000PF K
C491	24666100	ELECTROLYTIC, 10V 10UF M 3A
C497	24503049	PLASTIC FILM, 63V 0.47UF J
C498	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C501	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C502	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C503	24669470	ELECTROLYTIC, 50V 47UF M 3A
C504	24109103	CERAMIC CHIP, 50V B 0.01UF K
C505	24669470	ELECTROLYTIC, 50V 47UF M 3A
C506	24109103	CERAMIC CHIP, 50V B 0.01UF K
C507	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C508	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C509	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C511	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C512	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C513	24109103	CERAMIC CHIP, 50V B 0.01UF K
C514	24794470	ELECTROLYTIC, 16V 47UF M
C516	24105100	CERAMIC CHIP, 50V CH 10PF D
C517	24797478	ELECTROLYTIC, 50V 0.47UF M
C519	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C521	24092733	CERAMIC CHIP, 50V B 0.022UF K
C522	24109103	CERAMIC CHIP, 50V B 0.01UF K
C523	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C524	24109103	CERAMIC CHIP, 50V B 0.01UF K
C525	24567104	PLASTIC FILM, 50V 0.1UF J
C526	24109103	CERAMIC CHIP, 50V B 0.01UF K
C527	24797229	ELECTROLYTIC, 50V 2.2UF M
C531	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C532	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C533	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C534	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C536	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C537	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C540	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C541	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C542	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C601	24797010	ELECTROLYTIC, 50V 1UF M
C602	24797010	ELECTROLYTIC, 50V 1UF M
C603	24591471	PLASTIC FILM, 50V 470PF J
C604	24591471	PLASTIC FILM, 50V 470PF J
C605	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C606	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C607	24667470	ELECTROLYTIC CE04Q, 25V 47UF M 3A
C608	24667470	ELECTROLYTIC CE04Q, 25V 47UF M 3A
C609	24667470	ELECTROLYTIC CE04Q, 25V 47UF M 3A
C610	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C612	24669102	ELECTROLYTIC, 50V 1000UF M 3A
C613	24503042	PLASTIC FILM, 63V 0.12UF J
C614	24503042	PLASTIC FILM, 63V 0.12UF J
C615	24669102	ELECTROLYTIC, 50V 1000UF M 3A
C616	24669102	ELECTROLYTIC, 50V 1000UF M 3A
C617	24669220	ELECTROLYTIC, 04Q 50V 22UF M 3A
C618	24797478	ELECTROLYTIC, 50V 0.47UF M
C619	24794471	ELECTROLYTIC, 16V 470UF M
C621	24797220	ELECTROLYTIC, 50V 22UF M
C622	24591103	PLASTIC FILM, 50V 0.01UF J
C624	24794100	ELECTROLYTIC, 16V 10UF M
C626	24797478	ELECTROLYTIC, 50V 0.47UF M
C627	24797220	ELECTROLYTIC, 50V 22UF M
C628	24797220	ELECTROLYTIC, 50V 22UF M
C629	24503040	PLASTIC FILM, 63V 0.082UF J
C631	24797220	ELECTROLYTIC, 50V 22UF M
C633	24795221	ELECTROLYTIC CE04G, 25V 220UF M
C634	24765101	ELECTROLYITC, 35V 100UF M
C636	24797100	ELECTROLYTIC, 50V 10UF M
C639	24793101	ELECTROLYTIC, 10V 100UF M
C640	24109332	CERAMIC CHIP, 50V B 3300PF K
C641	24109332	CERAMIC CHIP, 50V B 3300PF K
C700	24353151	CERAMIC DISC, 50V CH 150PF J
C701	24105330	CERAMIC CHIP, 50V CH 33PF J
C702	24105330	CERAMIC CHIP, 50V CH 33PF J
C703	24105330	CERAMIC CHIP, 50V CH 33PF J

Location No.	Parts No.	Description
C704	24105330	CERAMIC CHIP, 50V CH 33PF J
C705	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C706	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C707	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C708	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C710	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C711	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C712	24105330	CERAMIC CHIP, 50V CH 33PF J
C713	24105330	CERAMIC CHIP, 50V CH 33PF J
C714	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C715	24092730	CERAMIC CHIP, 16V B 0.1UF K
C716	24092730	CERAMIC CHIP, 16V B 0.1UF K
C717	24105470	CERAMIC CHIP, 50V CH 47PF J
C718	24105470	CERAMIC CHIP, 50V CH 47PF J
C719	24794101	ELECTROLYTIC, 16V 100UF M
C720	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C721	24105070	CERAMIC CHIP, 50V CH 7PF D
C724	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C725	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C726	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C727	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C730	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C731	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C732	24109103	CERAMIC CHIP, 50V B 0.01UF K
C735	24092730	CERAMIC CHIP, 16V B 0.1UF K
C736	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C739	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C740	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C741	24794470	ELECTROLYTIC, 16V 47UF M
C742	24794470	ELECTROLYTIC, 16V 47UF M
C743	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C744	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C745	24794470	ELECTROLYTIC, 16V 47UF M
C746	24794470	ELECTROLYTIC, 16V 47UF M
C747	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C748	24100104	CERAMIC CHIP, 25V F 0.1UF Z
C749	24794470	ELECTROLYTIC, 16V 47UF M
C750	24794470	ELECTROLYTIC, 16V 47UF M
C761	24105102	CERAMIC CHIP, 25V CH 1000PF J
C762	24590562	PLASTIC FILM, 50V 5600PF J
C763	24105391	CERAMIC CHIP, 50V CH 390PF J
C765	24105102	CERAMIC CHIP, 25V CH 1000PF J
C766	24590562	PLASTIC FILM, 50V 5600PF J
C767	24105391	CERAMIC CHIP, 50V CH 390PF J
C769	24105102	CERAMIC CHIP, 25V CH 1000PF J
C770	24590562	PLASTIC FILM, 50V 5600PF J
C771	24105391	CERAMIC CHIP, 50V CH 390PF J
C772	24761221	ELECTROLYTIC, 6.3V 220UF M
C773	24105102	CERAMIC CHIP, 25V CH 1000PF J
C774	24590562	PLASTIC FILM, 50V 5600PF J
C775	24105391	CERAMIC CHIP, 50V CH 390PF J
C777	24105102	CERAMIC CHIP, 25V CH 1000PF J
C778	24590562	PLASTIC FILM, 50V 5600PF J
C779	24105391	CERAMIC CHIP, 50V CH 390PF J
C781	24105102	CERAMIC CHIP, 25V CH 1000PF J
C782	24590562	PLASTIC FILM, 50V 5600PF J
C783	24105391	CERAMIC CHIP, 50V CH 390PF J
C784	24105821	CERAMIC CHIP, 25V CH 820PF J
C785	24105821	CERAMIC CHIP, 25V CH 820PF J
C786	24105821	CERAMIC CHIP, 25V CH 820PF J
C787	24105821	CERAMIC CHIP, 25V CH 820PF J
C788	24105821	CERAMIC CHIP, 25V CH 820PF J
C789	24105821	CERAMIC CHIP, 25V CH 820PF J
C795	24761221	ELECTROLYTIC, 6.3V 220UF M
C798	24763101	ELECTROLYTIC, 16V 100UF M
C799	24763101	ELECTROLYTIC, 16V 100UF M
⚠ C801	24503055	PLASTIC FILM, AC275V 0.22UF M
⚠ C802	24092569	CERAMIC DISC, AC250V E 2200PF M
⚠ C803	24092569	CERAMIC DISC, AC250V E 2200PF M
⚠ C804	24092558	CERAMIC DISC, AC250V B 3300PF M
C810	24073121	400V 560M 20KH LLQ2G561MHSGTL
C811	24092281	CERAMIC DISC, AC250V E 4700PF
C813	24092281	CERAMIC DISC, AC250V E 4700PF
C816	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C819	24503051	PLASTIC FILM, 63V 0.68UF J
⚠ C820	24503055	PLASTIC FILM, AC275V 0.22UF M

Location No.	Parts No.	Description
⚠ C821	24503115	PLASTIC FILM, 800V 0.022UF J
C823	24667221	ELECTROLYTIC CE04Q, 25V 220UF M 3A
C824	24667221	ELECTROLYTIC CE04Q, 25V 220UF M 3A
C829	24214103	CERAMIC DISC, 500V B 0.01UF K
C830	24669100	ELECTROLYTIC, 50V 10UF M 3A
C831	24073037	ELECTROLYTIC, 16V 47UF M 3A
C834	24669100	ELECTROLYTIC, 50V 10UF M 3A
C835	24073015	ELECTROLYTIC, 10V 47UF M 3A
C840	24667102	ELECTROLYTIC, 25V 1000UF M 3A
C841	24503053	PLASTIC FILM, 63V 1UF J
C842	24664101	ELECTROLYITC, 04Q 6.3V 100UF M 3A
C857	24073058	ELECTROLYTIC, 25V 2200UF M 3A
C858	24073058	ELECTROLYTIC, 25V 2200UF M 3A
C859	24073057	ELECTROLYTIC, 25V 1000UF M 3A
C863	24503045	PLASTIC FILM, 63V 0.22UF J
C864	24092474	CERAMIC DISC, 2KV B 220PF K
C866	24503049	PLASTIC FILM, 63V 0.47UF J
C867	24591682	PLASTIC FILM, 50V 6800PF J
C868	24668470	ELECTROLYTIC, 35V 47UF M 3A
C869	24678229	ELECTROLYTIC, 200V 2.2UF M 3A
⚠ C870	24503122	PLASTIC FILM CQ92 T 800V 82000PF J
C871	24092484	CERAMIC DISC, 2KV B 1500PF K
C872	24092474	CERAMIC DISC, 2KV B 220PF K
C873	24503045	PLASTIC FILM, 63V 0.22UF J
C875	24212471	CERAMIC DISC, 50V B 470PF K
C876	24503049	PLASTIC FILM, 63V 0.47UF J
C879	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C880	24092338	CERAMIC DISC, 2KV R 270PF K
C881	24092338	CERAMIC DISC, 2KV R 270PF K
C884	24086939	ELECTROLYTIC, 200V 330UF M22B
C890	24073094	ELECTROLYTIC, 50V 1000UF M 3A
C891	24082229	PLASTIC FILM, 250V 0.1UF D
C894	24073043	ELECTROLYTIC, 16V 2200UF M 3A
C898	24503041	PLASTIC FILM , 63V 0.1UF J
C901	24211102	CERAMIC DISC, 2KV B 1000PF K
C902	24794100	ELECTROLYTIC, 16V 10UF M
C903	24232103	CERAMIC DISC, 50V F 0.01UF Z
C904	24436561	CERAMIC DISC, 50V SL 560PF J
C905	24214102	CERAMIC DISC, 500V B 1000PF K
C911	24211102	CERAMIC DISC, 2KV B 1000PF K
C912	24794100	ELECTROLYTIC, 16V 10UF M
C913	24232103	CERAMIC DISC, 50V F 0.01UF Z
C914	24436821	CERAMIC DISC, 50V SL 820PF J
C915	24679330	ELECTROLYTIC, 250V 33UF M 3A
C916	24794101	ELECTROLYTIC, 16V 100UF M
C921	24211102	CERAMIC DISC, 2KV B 1000PF K
C922	24794100	ELECTROLYTIC, 16V 10UF M
C924	24232103	CERAMIC DISC, 50V F 0.01UF Z
C926	24436681	CERAMIC DISC, 50V SL 680PF J
C961	24666101	ELECTROLYTIC 04Q, 16V 100UF M 3A
C962	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C963	24232103	CERAMIC DISC, 50V F 0.01UF Z
C964	24591104	PLASTIC FILM, 50V 0.1UF J
C3260	24092785	CERAMIC CHIP, 10V B 0.47UF K
C3301	24797229	ELECTROLYTIC, 50V 2.2UF M
C4401	24109223	CERAMIC CHIP, 25V B 0.022UF K
C4402	24797229	ELECTROLYTIC, 50V 2.2UF M
C4403	24109103	CERAMIC CHIP, 50V B 0.01UF K
C4404	24763102	ELECTROLYTIC, 16V 1000UF M
C4405	24109222	CERAMIC CHIP, 50V B 2200PF K
C4451	24763101	ELECTROLYTIC, 16V 100UF M
C5020	24109103	CERAMIC CHIP, 50V B 0.01UF K
C5030	24763221	ELECTROLYTIC, 16V 220UF M
C5070	24109103	CERAMIC CHIP, 50V B 0.01UF K
C5080	24669010	ELECTROLYTIC, 50V 1UF M 3A
C5090	24763101	ELECTROLYTIC, 16V 100UF M
C5100	24763101	ELECTROLYTIC, 16V 100UF M
C5200	24109102	CERAMIC CHIP, 50V B 1000PF K
C5210	24109102	CERAMIC CHIP, 50V B 1000PF K
C5220	24669010	ELECTROLYTIC, 50V 1UF M 3A
C7702	24105101	CERAMIC CHIP, 50V CH 100PF J
C7718	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7719	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7720	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7721	24105331	CERAMIC CHIP, 50V CH 330PF J
C7722	24105101	CERAMIC CHIP, 50V CH 100PF J

Location No.	Parts No.	Description
C7724	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7725	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7726	24105331	CERAMIC CHIP, 50V CH 330PF J
C7727	24105101	CERAMIC CHIP, 50V CH 100PF J
C7729	24105331	CERAMIC CHIP, 50V CH 330PF J
C7730	24105101	CERAMIC CHIP, 50V CH 100PF J
C7731	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7732	24105331	CERAMIC CHIP, 50V CH 330PF J
C7733	24105101	CERAMIC CHIP, 50V CH 100PF J
C7735	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7736	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7737	24105331	CERAMIC CHIP, 50V CH 330PF J
C7738	24105101	CERAMIC CHIP, 50V CH 100PF J
C7740	24105331	CERAMIC CHIP, 50V CH 330PF J
C7741	24105101	CERAMIC CHIP, 50V CH 100PF J
C7744	24109103	CERAMIC CHIP, 50V B 0.01UF K
C7747	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7749	24567104	PLASTIC FILM, 50V 0.1UF J
C7750	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7751	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7753	24567104	PLASTIC FILM, 50V 0.1UF J
C7754	24667101	ELECTROLYTIC CE04Q, 25V 100UF M 3A
C7756	24667470	ELECTROLYTIC CE04Q, 25V 47UF M 3A
C7757	24567104	PLASTIC FILM, 50V 0.1UF J
C7766	24669100	ELECTROLYTIC, 50V 10UF M 3A
C7767	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7769	24109103	CERAMIC CHIP, 50V B 0.01UF K
C7774	24105331	CERAMIC CHIP, 50V CH 330PF J
C7776	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7796	24073034	ELECTROLYTIC, 16V 10UF M 3A
C9602	24794100	ELECTROLYTIC, 16V 10UF M
CA09	24105101	CERAMIC CHIP, 50V CH 100PF J
CA10	24105101	CERAMIC CHIP, 50V CH 100PF J
CA12	24105101	CERAMIC CHIP, 50V CH 100PF J
CA15	24105101	CERAMIC CHIP, 50V CH 100PF J
CA16	24105101	CERAMIC CHIP, 50V CH 100PF J
CA17	24105101	CERAMIC CHIP, 50V CH 100PF J
CA20	24105101	CERAMIC CHIP, 50V CH 100PF J
CA33	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CA42	24794101	ELECTROLYTIC, 16V 100UF M
CA43	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA45	24109103	CERAMIC CHIP, 50V B 0.01UF K
CA58	24794330	ELECTROLYTIC, 04G 16V 33UF M
CA67	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CA68	24794100	ELECTROLYTIC, 16V 10UF M
CA69	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CA70	24794100	ELECTROLYTIC, 16V 10UF M
CB01	24794470	ELECTROLYTIC, 16V 47UF M
CB04	24092538	CERAMIC CHIP, 10V F 1UF Z
CB05	24109222	CERAMIC CHIP, 50V B 2200PF K
CB06	24105561	CERAMIC CHIP, 50V CH 560PF J
CB07	24109332	CERAMIC CHIP, 50V B 3300PF K
CB90	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CC01	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC10	24212221	CERAMIC DISC, 50V B 220PF K
CC15	24105470	CERAMIC CHIP, 50V CH 47PF J
CC26	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC27	24109103	CERAMIC CHIP, 50V B 0.01UF K
CC33	24105101	CERAMIC CHIP, 50V CH 100PF J
CC47	24212332	CERAMIC DISC, 50V B 3300PF K
CC48	24212332	CERAMIC DISC, 50V B 3300PF K
CC51	24232103	CERAMIC DISC, 50V F 0.01UF Z
CC52	24232103	CERAMIC DISC, 50V F 0.01UF Z
CC60	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC61	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC62	24109102	CERAMIC CHIP, 50V B 1000PF K
CC63	24109102	CERAMIC CHIP, 50V B 1000PF K
CC64	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC65	24109223	CERAMIC CHIP, 25V B 0.022UF K
CC66	24109102	CERAMIC CHIP, 50V B 1000PF K
CC67	24109102	CERAMIC CHIP, 50V B 1000PF K
CC68	24109102	CERAMIC CHIP, 50V B 1000PF K
CC69	24109102	CERAMIC CHIP, 50V B 1000PF K
CC70	24109102	CERAMIC CHIP, 50V B 1000PF K
CC71	24109102	CERAMIC CHIP, 50V B 1000PF K
CC72	24109102	CERAMIC CHIP, 50V B 1000PF K

Location No.	Parts No.	Description
CC73	24109102	CERAMIC CHIP, 50V B 1000PF K
CC74	24109102	CERAMIC CHIP, 50V B 1000PF K
CC75	24109102	CERAMIC CHIP, 50V B 1000PF K
CC76	24109102	CERAMIC CHIP, 50V B 1000PF K
CR01	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
CR02	24100103	CERAMIC CHIP, 50V F 0.01UF Z
CR09	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR10	24794470	ELECTROLYTIC, 16V 47UF M
CR11	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR13	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR14	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR18	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR19	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR20	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CR99	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CS01	24797229	ELECTROLYTIC, 50V 2.2UF M
CS02	24797229	ELECTROLYTIC, 50V 2.2UF M
CS03	24797229	ELECTROLYTIC, 50V 2.2UF M
CS04	24797229	ELECTROLYTIC, 50V 2.2UF M
CS05	24797229	ELECTROLYTIC, 50V 2.2UF M
CS06	24797229	ELECTROLYTIC, 50V 2.2UF M
CS07	24797229	ELECTROLYTIC, 50V 2.2UF M
CS08	24797229	ELECTROLYTIC, 50V 2.2UF M
CS09	24797229	ELECTROLYTIC, 50V 2.2UF M
CS11	24794100	ELECTROLYTIC, 16V 10UF M
CS12	24794100	ELECTROLYTIC, 16V 10UF M
CS13	24794100	ELECTROLYTIC, 16V 10UF M
CS14	24794100	ELECTROLYTIC, 16V 10UF M
CS16	24797229	ELECTROLYTIC, 50V 2.2UF M
CS18	24794100	ELECTROLYTIC, 16V 10UF M
CS19	24794100	ELECTROLYTIC, 16V 10UF M
CS20	24797478	ELECTROLYTIC, 50V 0.47UF M
CT01	24792221	ELECTROLYTIC CE04G 6.3V 220UF M
CT02	24109103	CERAMIC CHIP, 50V B 0.01UF K
CT03	24109103	CERAMIC CHIP, 50V B 0.01UF K
CT04	24793101	ELECTROLYTIC, 10V 100UF M
CT05	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT06	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT07	24092538	CERAMIC CHIP, 10V F 1UF Z
CT08	24105560	CERAMIC CHIP, 50V CH 56PF J
CT09	24105560	CERAMIC CHIP, 50V CH 56PF J
CT10	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT11	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT12	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT13	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT14	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT17	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT19	24794100	ELECTROLYTIC, 16V 10UF M
CT20	24109103	CERAMIC CHIP, 50V B 0.01UF K
CT23	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CT99	24793102	ELECTROLYTIC, 10V 1000UF M
CV02	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV03	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV04	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV05	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV06	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV08	24763221	ELECTROLYTIC, 16V 220UF M
CV12	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV23	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CV24	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV25	24794220	ELECTROLYTIC, 16V 22UF M
CV26	24109473	CERAMIC CHIP, 25V B 0.047UF K
CV35	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV39	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CV40	24109103	CERAMIC CHIP, 50V B 0.01UF K
CV41	24794470	ELECTROLYTIC, 16V 47UF M
CV42	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CV65	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CV66	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CW01	24781121	CERAMIC CHIP, 50V SL 120PF J
CW02	24781121	CERAMIC CHIP, 50V SL 120PF J
CW03	24781470	CERAMIC CHIP, 50V SL 47PF J
CW04	24085945	ELECTROLYTIC, NONPOLAR 04J, 50V 2.2UF @U105
	24591822	PLASTIC FILM, 50V 8200PF J @U901D
CW05	24781121	CERAMIC CHIP, 50V SL 120PF J @U105

Location No.	Parts No.	Description
	24212103	CERAMIC DISC, 50V B 10000PF K @U901D
CW06	24781121	CERAMIC CHIP, 50V SL 120PF J
CW07	24206229	ELECTROLYTIC, 04W 50V 2.2UF M 7L 3A @U105
	24666470	ELECTORLYTIC CE04Q, 16V 47UF M 3A @U901D
CW08	24781121	CERAMIC CHIP, 50V SL 120PF J
CW09	24781121	CERAMIC CHIP, 50V SL 120PF J
CW10	24206229	ELECTROLYTIC, 04W 50V 2.2UF M 7L 3A
CW11	24781330	CERAMIC CHIP, 50V SL 33PF J
CW12	24781820	CERAMIC CHIP, 50V SL 82PF J @U105
	24666470	ELECTORLYTIC CE04Q, 16V 47UF M 3A @U901D
CW13	24781330	CERAMIC CHIP, 50V SL 33PF J @U105
	24709100	ELECTROLYTIC, 200V 10UF M @U901D
CW14	24781820	CERAMIC CHIP, 50V SL 82PF J @U105
	24436101	CERAMIC DISC, 50V SL 100PF J @U901D
CW15	24781330	CERAMIC CHIP, 50V SL 33PF J @U105
	24214472	CERAMIC DISC, 500V B 4700PF K @U901D
CW16	24781820	CERAMIC CHIP, 50V SL 82PF J @U105
	24436101	CERAMIC DISC, 50V SL 100PF J @U901D
CW17	24214472	CERAMIC DISC, 500V B 4700PF K
CW18	24666470	ELECTORLYTIC CE04Q, 16V 47UF M 3A
CW19	24435560	CERAMIC DISC, 500V SL 56PF J
CW20	24709100	ELECTROLYTIC, 200V 10UF M
CW21	24794470	ELECTROLYTIC, 16V 47UF M
CW26	24212102	CERAMIC DISC, 50V B 1000PF K
CW27	24085986	ELEC. NONPOLAR, 10V 10UF M 7L NP
CW28	24085986	ELEC. NONPOLAR, 10V 10UF M 7L NP
CW29	24085986	ELEC. NONPOLAR, 10V 10UF M 7L NP
CW30	24202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CW31	24092294	CERAMIC CHIP, 16V F 0.33UF Z
CW32	24781331	CERAMIC CHIP, 50V SL 330PF J
CW33	24092294	CERAMIC CHIP, 16V F 0.33UF Z
CW34	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW35	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW36	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW37	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW38	24202101	ELECTROLYTIC, 04W 10V 100UF M 7L 3A
CW39	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW40	24203101	ELECTROLYTIC, 16V 100UF M 7L 3A
CW41	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW42	24201101	ELECTROLYTIC CE04W, 6.3V 100UF M 7L 3A
CW43	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW44	24201101	ELECTROLYTIC CE04W, 6.3V 100UF M 7L 3A
CW45	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW46	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
CW47	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW48	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW49	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW50	24202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CW51	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW52	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW53	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW54	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW55	24815472	CERAMIC CHIP, 50V B 4700PF K
CW56	24781221	CERAMIC CHIP, 50V SL 220PF J
CW60	24092441	CERAMIC CHIP, 16V F 1UF Z
CW61	24781182	CERAMIC CHIP, 50V SL 1800PF J
CW62	24781182	CERAMIC CHIP, 50V SL 1800PF J
CW68	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW70	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW72	24567103	PLASTIC FILM, 50V 0.01UF J
CW73	24774471	CERAMIC CHIP, 50V CH 470PF J
CW74	24814103	CERAMIC CHIP, 50V F 0.01UF Z
CW75	24092293	CERAMIC CHIP, 25V F 0.1UF Z
CW80	24092441	CERAMIC CHIP, 16V F 1UF Z
CW81	24092441	CERAMIC CHIP, 16V F 1UF Z
CW82	24781330	CERAMIC CHIP, 50V SL 33PF J
CW83	24781330	CERAMIC CHIP, 50V SL 33PF J
CW85	24781330	CERAMIC CHIP, 50V SL 33PF J
CW86	24781330	CERAMIC CHIP, 50V SL 33PF J
CW87	24781330	CERAMIC CHIP, 50V SL 33PF J
CW88	24781330	CERAMIC CHIP, 50V SL 33PF J
CW89	24781330	CERAMIC CHIP, 50V SL 33PF J
CW90	24781330	CERAMIC CHIP, 50V SL 33PF J
CW91	24781330	CERAMIC CHIP, 50V SL 33PF J
CW92	24781330	CERAMIC CHIP, 50V SL 33PF J
CW93	24781330	CERAMIC CHIP, 50V SL 33PF J

Location No.	Parts No.	Description
CW94	24781101	CERAMIC CHIP, 50V SL 100PF J
CW95	24781101	CERAMIC CHIP, 50V SL 100PF J
CW97	24781101	CERAMIC CHIP, 50V SL 100PF J
CZ01	24100104	CERAMIC CHIP, 25V F 0.1UF Z
CZ02	24109103	CERAMIC CHIP, 50V B 0.01UF K
RESISTORS		
R101	24382333	OXIDE METAL FILM, 1W 33K OHM J
R204	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R205	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R206	24366221	CARBON FILM, 1/6W 220 OHM J
R208	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R213	24872681	CHIP, 1/16W 680 OHM J
R214	24872681	CHIP, 1/16W 680 OHM J
R215	24872681	CHIP, 1/16W 680 OHM J
R216	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R218	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R219	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R220	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R231	24000445	CHIP JUMPER, 1608TYPE
R236	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R241	24367393	CARBON FILM, 1/6W 39K OHM J
R242	24367393	CARBON FILM, 1/6W 39K OHM J
R243	24367393	CARBON FILM, 1/6W 39K OHM J
R244	24366104	CARBON FILM, 1/6W 100K OHM J
R245	24366123	CARBON FILM, 1/6W 12K OHM J
R246	24366103	CARBON FILM, 1/6W 10K OHM J
R247	24366102	CARBON FILM, 1/6W 1K OHM J
R260	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R261	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R262	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R263	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R264	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R265	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R266	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R269	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R270	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R271	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R272	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R273	24011821	CHIP, 1/20W 820 OHM J
R274	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R275	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R276	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R277	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R278	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R279	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R280	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R301	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R302	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R303	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R304	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R305	24322828	OXIDE METAL FILM, 1W 0.82 OHM J
R306	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R307	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R308	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R310	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R311	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R312	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R313	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R314	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R315	24011821	CHIP, 1/20W 820 OHM J
R316	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R317	24011824	CHIP, METAL FILM, 1/20W 820K OHM J
R318	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
R320	24000249	METAL FILM, 1/4W 47K OHM F
R321	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R322	24000639	METAL FILM, 1/4W 22K OHM F
R323	24000529	RESIST0R, METAL FILM, 1/4W 6.8K OHM F
R324	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R325	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R326	24019388	CHIP, METAL FILM, 1/16W 10K OHM F
R327	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R328	24000633	METAL FILM, 1/4W 10K OHM F
R329	24019388	CHIP, METAL FILM, 1/16W 10K OHM F
R330	24000221	METAL FILM, 1/4W 20K OHM F
R331	24019119	METAL FILM, 1/6W 30K OHM J

Location No.	Parts No.	Description
R332	24000525	METAL FILM, 1/4W 4.7K OHM F
R333	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R334	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R335	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R336	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R337	24321129	OXIDE METAL FILM, 1/2W 1.2 OHM J
R338	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R339	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R340	24011824	CHIP, METAL FILM, 1/20W 820K OHM J
R341	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R342	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R343	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R344	24382271	OXIDE METAL FILM, 1W 270 OHM J
R346	24382391	OXIDE METAL FILM, 1W 390 OHM J
R347	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R348	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R349	24011392	CHIP, 1/20W 3.9K OHM J
R350	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R355	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R360	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R361	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R362	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R363	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R364	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R365	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R370	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R371	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R372	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R373	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R374	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R375	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R376	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R377	24000824	CHIP JUMPER, 2125TYPE
R378	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R380	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R381	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R390	24382561	OXIDE METAL FILM, 1W 560 OHM J
R391	24382561	OXIDE METAL FILM, 1W 560 OHM J
R392	24382561	OXIDE METAL FILM, 1W 560 OHM J
R401	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R402	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R403	24553272	OXIDE METAL FILM, 1W 2.7K OHM J
R404	24366332	CARBON FILM, 1/6W 3.3K OHM J
R405	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R406	24382472	OXIDE METAL FILM, 1W 4.7K OHM J
R407	24381100	OXIDE METAL FILM, 1/2W 10 OHM J
R408	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R409	24555220	OXIDE METAL FILM, 3W 22 OHM J
R410	24555220	OXIDE METAL FILM, 3W 22 OHM J
R411	24383270	OXIDE METAL FILM, 2W 27 OHM J
R412	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R413	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R414	24366100	CARBON FILM, 1/6W 10 OHM J
R415	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R416	24384682	OXIDE METAL FILM, 3W 6.8K OHM J
R417	24019292	FUSIBLE, 1/2W 68 OHM J
R418	24382104	OXIDE METAL FILM, 1W 100K OHM J
R419	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R420	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R421	24366223	CARBON FILM, 1/6W 22K OHM J
R422	24366223	CARBON FILM, 1/6W 22K OHM J
R431	24383102	OXIDE METAL FILM, 2W 1K OHM J
R432	24376274	CARBON FILM, 1/2W 270K OHM J
R433	24376274	CARBON FILM, 1/2W 270K OHM J
R434	24376274	CARBON FILM, 1/2W 270K OHM J
R435	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R441	24383102	OXIDE METAL FILM, 2W 1K OHM J
R443	24310109	OXIDE METAL FILM, 1/2W 1 OHM J
R444	24338398	OXIDE METAL FILM, 1W 0.39 OHM J
R445	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R446	24366103	CARBON FILM, 1/6W 10K OHM J
R447	24382473	OXIDE METAL FILM, 1W 47K OHM J
R448	24366334	CARBON FILM, 1/6W 330K OHM J
R449	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R455	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R460	24011103	CHIP, METAL FILM, 1/20W 10K OHM J

Location No.	Parts No.	Description
R461	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R462	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R463	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R464	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R465	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R466	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R467	24011683	CHIP, METAL FILM, 1/20W 68K OHM J
R468	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R469	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R470	24011224	CHIP, METAL FILM, 1/20W 220K OHM J @U102
	24323568	OXIDE METAL FILM, 2W 0.56 OHM J @U902
R471	24552271	OXIDE METAL FILM, 1/2W 270 OHM J
R472	24552151	OXIDE METAL FILM, 1/2W 150 OHM J
R473	24327223	METAL FILM, 1/4W 22K OHM F
R474	24327223	METAL FILM, 1/4W 22K OHM F
R475	24011103	CHIP, METAL FILM, 1/20W 10K OHM J @U102
	24366102	CARBON FILM, 1/6W 1K OHM J @U902
R476	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R477	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R478	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R479	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R480	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R481	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R482	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R488	24011392	CHIP, 1/20W 3.9K OHM J
R489	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R490	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R491	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R492	24000370	METAL FILM, 1/4W 3.3K OHM F
R493	24000137	METAL FILM, 1/4W 150 OHM F
R494	24000364	METAL FILM, 1/4W 1.8K OHM F
R495	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R496	24366103	CARBON FILM, 1/6W 10K OHM J
R497	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R498	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R501	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R502	24011272	CHIP, 1/20W 2.7K OHM J
R504	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R505	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R506	24011273	CHIP, 1/20W 27K OHM J
R507	24011392	CHIP, 1/20W 3.9K OHM J
R508	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R511	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R512	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R513	24366101	CARBON FILM, 1/6W 100 OHM J
R514	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R515	24011102	CHIP, METAL FILM, 1/20W 1K OHM J @U101
	24366103	CARBON FILM, 1/6W 10K OHM J @U102
R516	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R517	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R520	24366681	CARBON FILM, 1/6W 680 OHM J
R522	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R523	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R524	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R525	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R526	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R527	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R528	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R529	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R530	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R543	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R548	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R553	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R601	24011392	CHIP, 1/20W 3.9K OHM J
R602	24011392	CHIP, 1/20W 3.9K OHM J
R603	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R604	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R605	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R606	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R607	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R608	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R609	24366229	CARBON FILM, 1/6W 2.2 OHM J
R610	24366229	CARBON FILM, 1/6W 2.2 OHM J
R611	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R613	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R614	24011223	CHIP, METAL FILM, 1/20W 22K OHM J

Location No.	Parts No.	Description
R615	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R616	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R617	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R618	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R619	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R620	24552122	OXIDE METAL FILM, 1/2W 1.2K OHM J
R621	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R622	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R623	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R624	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R625	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R626	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R627	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R628	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R629	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R630	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R631	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R632	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R633	24011392	CHIP, 1/20W 3.9K OHM J
R634	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R635	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R636	24872822	CHIP, 1/16W 8.2K OHM J
R637	24872822	CHIP, 1/16W 8.2K OHM J
R641	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R642	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R643	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R644	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R645	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R646	24872822	CHIP, 1/16W 8.2K OHM J
R647	24872822	CHIP, 1/16W 8.2K OHM J
R688	24552391	OXIDE METAL FILM, 1/2W 390 OHM J
R690	24552391	OXIDE METAL FILM, 1/2W 390 OHM J
R701	24872221	CHIP, 1/16W 220 OHM J
R702	24872221	CHIP, 1/16W 220 OHM J
R703	24872472	CHIP, 1/16W 4.7K OHM J
R704	24872472	CHIP, 1/16W 4.7K OHM J
R705	24872472	CHIP, 1/16W 4.7K OHM J
R706	24872472	CHIP, 1/16W 4.7K OHM J
R707	24872100	CHIP, 1/16W 10 OHM J
R708	24872100	CHIP, 1/16W 10 OHM J
R709	24872100	CHIP, 1/16W 10 OHM J
R710	24872100	CHIP, 1/16W 10 OHM J
R711	24872100	CHIP, 1/16W 10 OHM J
R712	24872100	CHIP, 1/16W 10 OHM J
R713	24872100	CHIP, 1/16W 10 OHM J
R714	24872100	CHIP, 1/16W 10 OHM J
R716	24872103	CHIP, 1/16W 10K OHM J
R718	24872221	CHIP, 1/16W 220 OHM J
R720	24872103	CHIP, 1/16W 10K OHM J
R721	24872103	CHIP, 1/16W 10K OHM J
R722	24872561	CHIP, 1/16W 560 OHM J
R723	24872102	CHIP, 1/16W 1K OHM J
R724	24872102	CHIP, 1/16W 1K OHM J
R725	24872102	CHIP, 1/16W 1K OHM J
R726	24872331	CHIP, 1/16W 330 OHM J
R727	24872222	CHIP, 1/16W 2.2K OHM J
R728	24872221	CHIP, 1/16W 220 OHM J
R729	24872221	CHIP, 1/16W 220 OHM J
R730	24872473	CHIP, 1/16W 47K OHM J
R731	24872473	CHIP, 1/16W 47K OHM J
R732	24872473	CHIP, 1/16W 47K OHM J
R733	24872473	CHIP, 1/16W 47K OHM J
R734	24872221	CHIP, 1/16W 220 OHM J
R735	24872911	CHIP, 1/16W 910 OHM J
R736	24872911	CHIP, 1/16W 910 OHM J
R737	24872152	CHIP, 1/16W 1.5K OHM J
R738	24872332	CHIP, 1/16W 3.3K OHM J
R739	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R740	24872911	CHIP, 1/16W 910 OHM J
R741	24872911	CHIP, 1/16W 910 OHM J
R742	24872152	CHIP, 1/16W 1.5K OHM J
R743	24872332	CHIP, 1/16W 3.3K OHM J
R744	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R745	24872911	CHIP, 1/16W 910 OHM J
R746	24872911	CHIP, 1/16W 910 OHM J
R747	24872152	CHIP, 1/16W 1.5K OHM J

Location No.	Parts No.	Description
R748	24872332	CHIP, 1/16W 3.3K OHM J
R749	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R750	24872911	CHIP, 1/16W 910 OHM J
R751	24872911	CHIP, 1/16W 910 OHM J
R752	24872152	CHIP, 1/16W 1.5K OHM J
R753	24872332	CHIP, 1/16W 3.3K OHM J
R754	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R755	24872911	CHIP, 1/16W 910 OHM J
R756	24872911	CHIP, 1/16W 910 OHM J
R757	24872152	CHIP, 1/16W 1.5K OHM J
R758	24872332	CHIP, 1/16W 3.3K OHM J
R759	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R760	24872911	CHIP, 1/16W 910 OHM J
R761	24872911	CHIP, 1/16W 910 OHM J
R762	24872152	CHIP, 1/16W 1.5K OHM J
R763	24872332	CHIP, 1/16W 3.3K OHM J
R764	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R778	24872101	CHIP, 1/16W 100 OHM J
R779	24872101	CHIP, 1/16W 100 OHM J
R780	24872101	CHIP, 1/16W 100 OHM J
R781	24872101	CHIP, 1/16W 100 OHM J
R782	24872101	CHIP, 1/16W 100 OHM J
R783	24872101	CHIP, 1/16W 100 OHM J
R786	24872472	CHIP, 1/16W 4.7K OHM J
R787	24872472	CHIP, 1/16W 4.7K OHM J
R790	24872101	CHIP, 1/16W 100 OHM J
R791	24872101	CHIP, 1/16W 100 OHM J
R792	24872101	CHIP, 1/16W 100 OHM J
R793	24872101	CHIP, 1/16W 100 OHM J
R794	24872101	CHIP, 1/16W 100 OHM J
R795	24000824	CHIP JUMPER, 2125TYPE
R796	24000824	CHIP JUMPER, 2125TYPE
R797	24872101	CHIP, 1/16W 100 OHM J
R798	24872101	CHIP, 1/16W 100 OHM J
R799	24872101	CHIP, 1/16W 100 OHM J
⚠ R801	24005015	METAL GLAZE, 1W 8.2M OHM J
R810	24510152	CERAMIC COVERED, 5W 1.5K OHM J
R814	24366102	CARBON FILM, 1/6W 1K OHM J
R815	24366102	CARBON FILM, 1/6W 1K OHM J
R816	24366102	CARBON FILM, 1/6W 1K OHM J
R817	24366102	CARBON FILM, 1/6W 1K OHM J
R818	24366471	CARBON FILM, 1/6W 470 OHM J
⚠ R819	24009954	METAL FILN, 1/2W 2.2M OHM J
R820	24327153	METAL FILM, 1/4W 15K OHM J
R821	24327123	METAL FILM, 1/4W 12K OHM F
R822	24327123	METAL FILM, 1/4W 12K OHM F
R823	24327123	METAL FILM, 1/4W 12K OHM F
R824	24366102	CARBON FILM, 1/6W 1K OHM J
R830	24366333	CARBON FILM, 1/6W 33K OHM J
R840	24366473	CARBON FILM, 1/6W 47K OHM J
R842	24366222	CARBON FILM, 1/6W 2.2K OHM J
R843	24366103	CARBON FILM, 1/6W 10K OHM J
R852	24322159	OXIDE METAL FILM, 1W 1.5 OHM J
R853	24322159	OXIDE METAL FILM, 1W 1.5 OHM J
R854	24322159	OXIDE METAL FILM, 1W 1.5 OHM J
R855	24322159	OXIDE METAL FILM, 1W 1.5 OHM J
R861	24555333	OXIDE METAL FILM, 3W 33K OHM J
R862	24321689	OXIDE METAL FILM, 1/2W 6.8 OHM J
R864	24552102	OXIDE METAL FILM, 1/2W 1K OHM J
R865	24545109	FUSIBLE, 1/4W 1 OHM J
R866	24552470	OXIDE METAL FILM, 1/2W 47 OHM J
R867	24367563	CARBON FILM, 1/6W 56K OHM G
R868	24552560	OXIDE METAL FILM, 1/2W 56 OHM J
R870	24552121	OXIDE METAL FILM, 1/2W 120 OHM J
R871	24553680	OXIDE METAL FILM, 1W 68 OHM J
R872	24377224	CARBON FILM, 1W 220K OHM J
R883	24381683	OXIDE METAL FILM, 1/2W 68K OHM J
R884	24366102	CARBON FILM, 1/6W 1K OHM J
R885	24545109	FUSIBLE, 1/4W 1 OHM J
R891	24366152	CARBON FILM, 1/6W 1.5K OHM J
R901	24366471	CARBON FILM, 1/6W 470 OHM J
R903	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R905	24366390	CARBON FILM, 1/6W 39 OHM J
R906	24366621	CARBON FILM, 1/6W 620 OHM J
R908	24366560	CARBON FILM, 1/6W 56 OHM J
R909	24366121	CARBON FILM, 1/6W 120 OHM J

Location No.	Parts No.	Description
R911	24366471	CARBON FILM, 1/6W 470 OHM J
R913	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R915	24366330	CARBON FILM, 1/6W 33 OHM J
R916	24366621	CARBON FILM, 1/6W 620 OHM J
R918	24366430	CARBON FILM, 1/6W 43 OHM J
R921	24366471	CARBON FILM, 1/6W 470 OHM J
R923	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R925	24366121	CARBON FILM, 1/6W 120 OHM J
R926	24366621	CARBON FILM, 1/6W 620 OHM J
R928	24366680	CARBON FILM, 1/6W 68 OHM J
R931	24555153	OXIDE METAL FILM, 3W 15K OHM J
R932	24555153	OXIDE METAL FILM, 3W 15K OHM J
R933	24000892	FUSIBLE, 1W 1.2 OHM J
R934	24323688	OXIDE METAL FILM, 2W 0.68 OHM J
R935	24366150	CARBON FILM, 1/6W 15 OHM J
R941	24555153	OXIDE METAL FILM, 3W 15K OHM J
R942	24555153	OXIDE METAL FILM, 3W 15K OHM J
R949	24366101	CARBON FILM, 1/6W 100 OHM J
R951	24555153	OXIDE METAL FILM, 3W 15K OHM J
R952	24555153	OXIDE METAL FILM, 3W 15K OHM J
R953	24366390	CARBON FILM, 1/6W 39 OHM J
R956	24366102	CARBON FILM, 1/6W 1K OHM J
R961	24366102	CARBON FILM, 1/6W 1K OHM J
R962	24366361	CARBON FILM, 1/6W 360 OHM J
R964	24366332	CARBON FILM, 1/6W 3.3K OHM J
R965	24366471	CARBON FILM, 1/6W 470 OHM J
R966	24366821	CARBON FILM, 1/6W 820 OHM J
R967	24366102	CARBON FILM, 1/6W 1K OHM J
R968	24366680	CARBON FILM, 1/6W 68 OHM J
R969	24366103	CARBON FILM, 1/6W 10K OHM J
R970	24366222	CARBON FILM, 1/6W 2.2K OHM J
R971	24367152	CARBON FILM, 1/6W 1.5K OHM G
R972	24367471	CARBON FILM, 1/6W 470 OHM G
R973	24367681	CARBON FILM, 1/6W 680 OHM G
R974	24367681	CARBON FILM, 1/6W 680 OHM G
R975	24366242	CARBON FILM, 1/6W 2.4K OHM J
R976	24367562	CARBON FILM, 1/6W 5.6K OHM G
R977	24367472	CARBON FILM, 1/6W 4.7K OHM G
R978	24367681	CARBON FILM, 1/6W 680 OHM G
R4401	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
R4403	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R4404	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R4405	24011391	CHIP, 1/20W 390 OHM J
R4406	24011274	CHIP, 1/20W 270K OHM J
R4407	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R4408	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4409	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4422	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4451	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R4452	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4453	24011272	CHIP, 1/20W 2.7K OHM J
R4454	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4471	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R4472	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
R5020	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R5030	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7707	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7708	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7709	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7710	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7711	24547189	FUSIBLE, 1W 1.8 OHM J
R7712	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7713	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7714	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7715	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7716	24547189	FUSIBLE, 1W 1.8 OHM J
R7717	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7718	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7719	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7720	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7721	24547189	FUSIBLE, 1W 1.8 OHM J
R7722	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7723	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7724	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7725	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7726	24547189	FUSIBLE, 1W 1.8 OHM J

Location No.	Parts No.	Description
R7727	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7728	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7729	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7730	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7731	24547189	FUSIBLE, 1W 1.8 OHM J
R7732	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7733	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7734	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7735	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7736	24547189	FUSIBLE, 1W 1.8 OHM J
R7766	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R7767	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R7773	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R7777	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7779	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7780	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7781	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R7795	24000445	CHIP JUMPER, 1608TYPE
R7796	24000445	CHIP JUMPER, 1608TYPE
R7797	24000445	CHIP JUMPER, 1608TYPE
R7798	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7799	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7845	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7846	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7847	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7848	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7849	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7850	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R7851	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R7852	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7853	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7854	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7863	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7864	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7866	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7867	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7890	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7891	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7895	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R9601	24366471	CARBON FILM, 1/6W 470 OHM J
R9602	24366362	CARBON FILM, 1/6W 3.6K OHM J
R9603	24366392	CARBON FILM, 1/6W 3.9K OHM J
R9604	24366272	CARBON FILM, 1/6W 2.7K OHM J
R9605	24366682	CARBON FILM, 1/6W 6.8K OHM J
R9606	24366392	CARBON FILM, 1/6W 3.9K OHM J
R9613	24366680	CARBON FILM, 1/6W 68 OHM J
R9614	24366390	CARBON FILM, 1/6W 39 OHM J
R9615	24366101	CARBON FILM, 1/6W 100 OHM J
R9616	24366102	CARBON FILM, 1/6W 1K OHM J
RA01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA02	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA07	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA08	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA09	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA10	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA11	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA12	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA16	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA17	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA18	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA19	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA20	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA21	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA22	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA23	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA24	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA25	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA26	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA27	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA29	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA30	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA33	24011103	CHIP, METAL FILM, 1/20W 10K OHM J

Location No.	Parts No.	Description
RA35	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA38	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA39	24000445	CHIP JUMPER, 1608TYPE
RA43	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA44	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA50	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA51	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA52	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA60	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RA62	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA63	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA65	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA66	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA67	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA68	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA70	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA71	24011102	CHIP, METAL FILM, 1/20W 1K OHM J @U101
	24366683	CARBON FILM, 1/6W 68K OHM J @U903A
RA72	24011102	CHIP, METAL FILM, 1/20W 1K OHM J @U101
	24366223	CARBON FILM, 1/6W 22K OHM J @U903A
RA73	24011470	CHIP, METAL FILM, 1/20W 47 OHM J @U101
	24366103	CARBON FILM, 1/6W 10K OHM J @U903A
RA75	24011333	CHIP, METAL FILM, 1/20W 33K OHM J @U101
	24366103	CARBON FILM, 1/6W 10K OHM J @U903A
RA76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA78	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA89	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RA601	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA602	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RA609	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB01	24366271	CARBON FILM, 1/6W 270 OHM J
RB02	24366471	CARBON FILM, 1/6W 470 OHM J
RB04	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB05	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RB06	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB07	24011392	CHIP, 1/20W 3.9K OHM J
RB08	24011392	CHIP, 1/20W 3.9K OHM J
RB09	24011103	CHIP, METAL FILM, 1/20W 10K OHM J @U101
	24366470	CARBON FILM, 1/6W 47 OHM J @U903B
RB10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J @U101
	24366101	CARBON FILM, 1/6W 100 OHM J @U903C
RB11	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J @U101
	24366103	CARBON FILM, 1/6W 10K OHM J @U903C
RB12	24366471	CARBON FILM, 1/6W 470 OHM J
RB39	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB43	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB45	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB60	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB81	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
RB82	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB83	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB90	24011392	CHIP, 1/20W 3.9K OHM J
RB91	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB92	24011271	CHIP, 1/20W 270 OHM J
RB93	24011271	CHIP, 1/20W 270 OHM J
RB94	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB95	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB96	24011273	CHIP, 1/20W 27K OHM J
RB97	24011273	CHIP, 1/20W 27K OHM J
RB98	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB604	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RC01	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC02	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC03	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC04	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC05	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC06	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC07	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC08	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC60	24366681	CARBON FILM, 1/6W 680 OHM J
RC61	24366681	CARBON FILM, 1/6W 680 OHM J
RR01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR02	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RR03	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RR04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J

Location No.	Parts No.	Description
RR05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR06	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RR07	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR09	24000445	CHIP JUMPER, 1608TYPE
RR10	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR11	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RR12	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR13	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR15	24011391	CHIP, 1/20W 390 OHM J
RR16	24011391	CHIP, 1/20W 390 OHM J
RR17	24011391	CHIP, 1/20W 390 OHM J
RR18	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR22	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RR23	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RR35	24011392	CHIP, 1/20W 3.9K OHM J
RR36	24011392	CHIP, 1/20W 3.9K OHM J
RR37	24011392	CHIP, 1/20W 3.9K OHM J
RR40	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR48	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR61	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RR63	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR64	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR65	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR68	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR69	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR70	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR74	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR75	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR85	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR86	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR87	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR88	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS01	24011271	CHIP, 1/20W 270 OHM J
RS02	24011271	CHIP, 1/20W 270 OHM J
RS03	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS04	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS05	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS06	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS07	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS08	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS09	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS10	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS11	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS12	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS13	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS14	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS15	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS16	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS17	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS18	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS19	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS20	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS21	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS23	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS24	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS25	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS26	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS27	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS28	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS29	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS30	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS31	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS32	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS33	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS34	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS49	24011271	CHIP, 1/20W 270 OHM J
RS50	24011271	CHIP, 1/20W 270 OHM J
RS51	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS52	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS53	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS54	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS55	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS56	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RT01	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT02	24011101	CHIP, METAL FILM, 1/20W 100 OHM J

Location No.	Parts No.	Description
RT03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT05	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RT06	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT07	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT08	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT09	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT10	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT11	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT12	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT14	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT15	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT16	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT18	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RT19	24000445	CHIP JUMPER, 1608TYPE
RT20	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT21	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT23	24000445	CHIP JUMPER, 1608TYPE
RT24	24000594	CHIP, 1/16W 12K OHM F
RT26	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RT27	24000594	CHIP, 1/16W 12K OHM F
RT28	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT29	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT30	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT31	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RT32	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RT33	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RT34	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT35	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT38	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT39	24011561	CHIP, METAL FILM, 1/20W 560 OHM J
RT40	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT42	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RT43	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT44	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV07	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV08	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV09	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV23	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV24	24011181	CHIP, METAL FILM, 1/20W 180 OHM J
RV25	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV26	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV27	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV28	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV29	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV30	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV32	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV33	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV34	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV37	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV38	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV40	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RV41	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV42	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV43	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RV44	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV45	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV46	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV61	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV62	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV63	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV64	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV65	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV66	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV67	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV68	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV81	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV85	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV86	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV87	24872750	CHIP, METAL FILM, 1/16W 75 OHM J

Location No.	Parts No.	Description
RV88	24872151	CHIP, 1/16W 150 OHM J
RV89	24872151	CHIP, 1/16W 150 OHM J
RV94	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV95	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV96	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RW02	24872563	CHIP, 1/16W 56K OHM J @U105
	24366271	CARBON FILM, 1/6W 270 OHM J @U901D
RW03	24872393	CHIP, 1/16W 39K OHM J
RW04	24872560	CHIP, 1/16W 56 OHM J
RW05	24872102	CHIP, 1/16W 1K OHM J
RW06	24872151	CHIP, 1/16W 150 OHM J
RW07	24872222	CHIP, 1/16W 2.2K OHM J
RW08	24872821	CHIP, 1/16W 820 OHM J
RW09	24872560	CHIP, 1/16W 56 OHM J @U105
	24366563	CARBON FILM, 1/6W 56K OHM J @U901D
RW10	24872152	CHIP, 1/16W 1.5K OHM J
RW11	24872561	CHIP, 1/16W 560 OHM J
RW12	24872272	CHIP, 1/16W 2.7K OHM J
RW13	24872821	CHIP, 1/16W 820 OHM J @U105
	24366393	CARBON FILM, 1/6W 39K OHM J @U901D
RW14	24872560	CHIP, 1/16W 56 OHM J @U105
	24552121	OXIDE METAL FILM, 1/2W 120 OHM J @U901D
RW15	24872152	CHIP, 1/16W 1.5K OHM J @U105
	24366473	CARBON FILM, 1/6W 47K OHM J @U901D
RW16	24872561	CHIP, 1/16W 560 OHM J @U105
	24366273	CARBON FILM, 1/6W 27K OHM J @U901D
RW17	24872272	CHIP, 1/16W 2.7K OHM J @U105
	24366333	CARBON FILM, 1/6W 33K OHM J @U901D
RW18	24872821	CHIP, 1/16W 820 OHM J @U105
	24366101	CARBON FILM, 1/6W 100 OHM J @U901D
RW19	24366100	CARBON FILM, 1/6W 10 OHM J
RW20	24872101	CHIP, 1/16W 100 OHM J @U105
	24366392	CARBON FILM, 1/6W 3.9K OHM J @U901D
RW21	24872102	CHIP, 1/16W 1K OHM J
RW22	24872101	CHIP, 1/16W 100 OHM J @U105
	24366102	CARBON FILM, 1/6W 1K OHM J @U901D
RW23	24872821	CHIP, 1/16W 820 OHM J @U105
	24366101	CARBON FILM, 1/6W 100 OHM J @U901D
RW24	24872821	CHIP, 1/16W 820 OHM J @U105
	24366331	CARBON FILM, 1/6W 330 OHM J @U901D
RW25	24872101	CHIP, 1/16W 100 OHM J @U105
	24366182	CARBON FILM, 1/6W 1.8K OHM J @U901D
RW26	24872101	CHIP, 1/16W 100 OHM J
RW27	24872102	CHIP, 1/16W 1K OHM J
RW28	24872271	CHIP, 1/16W 270 OHM J
RW29	24872392	CHIP, 1/16W 3.9K OHM J
RW30	24872152	CHIP, 1/16W 1.5K OHM J @U105
	24552100	OXIDE METAL FILM, 1/2W 10 OHM J @U901D
RW31	24872101	CHIP, 1/16W 100 OHM J @U105
	24552331	OXIDE METAL FILM, 1/2W 330 OHM J @U901D
RW32	24872101	CHIP, 1/16W 100 OHM J @U105
	24366820	CARBON FILM, 1/6W 82 OHM J @U901D
RW33	24872102	CHIP, 1/16W 1K OHM J @U105
	24366683	CARBON FILM, 1/6W 68K OHM J @U901D
RW34	24872271	CHIP, 1/16W 270 OHM J @U105
	24366820	CARBON FILM, 1/6W 82 OHM J @U901D
RW35	24872392	CHIP, 1/16W 3.9K OHM J @U105
	24366683	CARBON FILM, 1/6W 68K OHM J @U901D
RW36	24872152	CHIP, 1/16W 1.5K OHM J @U105
	24366330	CARBON FILM, 1/6W 33 OHM J @U901D
RW37	24872101	CHIP, 1/16W 100 OHM J @U105
	24366152	CARBON FILM, 1/6W 1.5K OHM J @U901D
RW38	24366102	CARBON FILM, 1/6W 1K OHM J
RW39	24366152	CARBON FILM, 1/6W 1.5K OHM J
RW40	24366330	CARBON FILM, 1/6W 33 OHM J
RW41	24872101	CHIP, 1/16W 100 OHM J @U105
	24366279	CARBON FILM, 1/6W 2.7 OHM J @U901D
RW42	24872101	CHIP, 1/16W 100 OHM J @U105
	24366279	CARBON FILM, 1/6W 2.7 OHM J @U901D
RW43	24872182	CHIP, 1/16W 1.8K OHM J @U105
	24554221	OXIDE METAL FILM, 2W 220 OHM J @U901D
RW44	24872181	CHIP, 1/16W 180 OHM J @U105
	24366122	CARBON FILM, 1/6W 1.2K OHM J @U901D
RW45	24366122	CARBON FILM, 1/6W 1.2K OHM J
RW46	24872101	CHIP, 1/16W 100 OHM J
RW47	24872222	CHIP, 1/16W 2.2K OHM J

Location No.	Parts No.	Description
RW60	24000824	CHIP JUMPER, 2125TYPE
RW61	24872472	CHIP, 1/16W 4.7K OHM J
RW62	24872622	CHIP, 1/16W 6.2K OHM J
RW63	24872101	CHIP, 1/16W 100 OHM J
RW64	24872101	CHIP, 1/16W 100 OHM J
RW65	24872101	CHIP, 1/16W 100 OHM J
RW66	24872681	CHIP, 1/16W 680 OHM J
RW67	24872222	CHIP, 1/16W 2.2K OHM J
RW68	24872222	CHIP, 1/16W 2.2K OHM J
RW69	24872222	CHIP, 1/16W 2.2K OHM J
RW70	24872333	CHIP, 1/16W 33K OHM J
RW71	24872182	CHIP, 1/16W 1.8K OHM J
RW72	24872182	CHIP, 1/16W 1.8K OHM J
RW73	24872103	CHIP, 1/16W 10K OHM J
RW74	24872332	CHIP, 1/16W 3.3K OHM J
RW76	24872182	CHIP, 1/16W 1.8K OHM J
RW77	24000824	CHIP JUMPER, 2125TYPE
RW78	24000824	CHIP JUMPER, 2125TYPE
RW79	24000824	CHIP JUMPER, 2125TYPE
RW80	24872331	CHIP, 1/16W 330 OHM J
RW81	24872331	CHIP, 1/16W 330 OHM J
RW82	24872102	CHIP, 1/16W 1K OHM J
RW83	24872103	CHIP, 1/16W 10K OHM J
RW84	24872102	CHIP, 1/16W 1K OHM J
RW85	24000824	CHIP JUMPER, 2125TYPE
RW89	24872102	CHIP, 1/16W 1K OHM J
RW90	24000824	CHIP JUMPER, 2125TYPE
RW91	24872103	CHIP, 1/16W 10K OHM J
RW92	24872103	CHIP, 1/16W 10K OHM J
RW93	24872101	CHIP, 1/16W 100 OHM J
RW94	24872101	CHIP, 1/16W 100 OHM J
RW95	24872101	CHIP, 1/16W 100 OHM J
RW96	24872102	CHIP, 1/16W 1K OHM J
RW100	24872563	CHIP, 1/16W 56K OHM J
RW101	24872393	CHIP, 1/16W 39K OHM J
RW102	24872563	CHIP, 1/16W 56K OHM J
RW103	24872393	CHIP, 1/16W 39K OHM J
RW104	24872682	CHIP, 1/16W 6.8K OHM J
RW105	24872392	CHIP, 1/16W 3.9K OHM J
RW107	24872103	CHIP, 1/16W 10K OHM J
RW108	24872333	CHIP, 1/16W 33K OHM J
RW109	24872103	CHIP, 1/16W 10K OHM J
RW110	24872333	CHIP, 1/16W 33K OHM J
RW114	24872563	CHIP, 1/16W 56K OHM J
RW116	24872222	CHIP, 1/16W 2.2K OHM J
D816	24000656	VARISTOR, TNR15G471K
G023	24327180	METAL FILM, 1/4W 180 OHM F
G601	24000445	CHIP JUMPER, 1608TYPE
G602	24000445	CHIP JUMPER, 1608TYPE
G603	24000445	CHIP JUMPER, 1608TYPE
G604	24000445	CHIP JUMPER, 1608TYPE
GC01	24000445	CHIP JUMPER, 1608TYPE
GC03	24000445	CHIP JUMPER, 1608TYPE
GJ03	24000445	CHIP JUMPER, 1608TYPE
GJ05	24000445	CHIP JUMPER, 1608TYPE
GJ08	24000445	CHIP JUMPER, 1608TYPE
GJ11	24000445	CHIP JUMPER, 1608TYPE
GJ13	24000445	CHIP JUMPER, 1608TYPE
GJ14	24000445	CHIP JUMPER, 1608TYPE
GJ16	24000445	CHIP JUMPER, 1608TYPE
GJ17	24000445	CHIP JUMPER, 1608TYPE
GJ18	24000445	CHIP JUMPER, 1608TYPE
GJ21	24000445	CHIP JUMPER, 1608TYPE
GJ22	24000445	CHIP JUMPER, 1608TYPE
GJ23	24000445	CHIP JUMPER, 1608TYPE
GJ24	24000445	CHIP JUMPER, 1608TYPE
GJ30	24000445	CHIP JUMPER, 1608TYPE
GJ47	24000445	CHIP JUMPER, 1608TYPE
GJ48	24000445	CHIP JUMPER, 1608TYPE @U101
	24000824	CHIP JUMPER, 2125TYPE @U102
GJ49	24000445	CHIP JUMPER, 1608TYPE
GJ51	24000445	CHIP JUMPER, 1608TYPE
GJ62	24000445	CHIP JUMPER, 1608TYPE
GJ63	24000445	CHIP JUMPER, 1608TYPE
GJ68	24000445	CHIP JUMPER, 1608TYPE
GJ73	24000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
GJ74	24000445	CHIP JUMPER, 1608TYPE
GJ75	24000445	CHIP JUMPER, 1608TYPE
GJ76	24000445	CHIP JUMPER, 1608TYPE @U101
	24000445	CHIP JUMPER, 1608TYPE @U102
GJ77	24000445	CHIP JUMPER, 1608TYPE
GJ78	24000445	CHIP JUMPER, 1608TYPE
GJ79	24000445	CHIP JUMPER, 1608TYPE
GJ705	24000824	CHIP JUMPER, 2125TYPE
GJ707	24000824	CHIP JUMPER, 2125TYPE
GJ708	24000824	CHIP JUMPER, 2125TYPE
GJ711	24872101	CHIP, 1/16W 100 OHM J
GJ712	24872101	CHIP, 1/16W 100 OHM J
GJ713	24000824	CHIP JUMPER, 2125TYPE
GJ714	24000824	CHIP JUMPER, 2125TYPE
GJ718	24000824	CHIP JUMPER, 2125TYPE
GJ777	24000445	CHIP JUMPER, 1608TYPE
GT03	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT04	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT05	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT07	24000445	CHIP JUMPER, 1608TYPE
GT09	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
JR01	24000445	CHIP JUMPER, 1608TYPE
LC12	24000445	CHIP JUMPER, 1608TYPE @U101
LW04	24000824	CHIP JUMPER, 2125TYPE @U105
COILS & TRANSFORMERS		
L101	23221803	COIL, CHOKE, TLN3040D
L201	23289840	COIL, PEAKING, TRF4100AT
L302	23248073	COIL, CHOKE, TLN3299D
L303	23248073	COIL, CHOKE, TLN3299D
L304	23103859	FILTER, FERRITE CHOKE, TEM2011
L310	23237975	COIL, PEAKING, TRF4101AC
L311	23237975	COIL, PEAKING, TRF4101AC
L401	23289560	COIL, PEAKING, TRF4560AF
L402	23248244	COIL, CHOKE, TLN3497AH
L404	23248242	COIL, CHOKE, TLN3495AH
L405	23221076	COIL, CHOKE, TLN1015R
L406	23248243	COIL, CHOKE, TLN3496AH
L407	23103248	FERRITE CHOKE, TEM2014AA
L408	23103248	FERRITE CHOKE, TEM2014AA
L409	23237975	COIL, PEAKING, TRF4101AC
L441	23233052	COIL, HORIZ LINEARITY, TLN2203AT
⚠ L462	23231359	DEFLECTION YOKE, MIX YOKE TDY707JTA
⚠ L463	23231359	DEFLECTION YOKE, MIX YOKE TDY707JTA
⚠ L464	23231359	DEFLECTION YOKE, MIX YOKE TDY707JTA
L472	23102457	VM COIL, 29.1VM4T3PLEAD, MAG-1102
L473	23102457	VM COIL, 29.1VM4T3PLEAD, MAG-1102
L474	23102457	VM COIL, 29.1VM4T3PLEAD, MAG-1102
L501	23289470	COIL, PEAKING, TRF4470AF
L503	23289844	COIL, PEAKING, TRF4470AT
L504	23238714	COIL, PEAKING, TRF4100AJ
L505	23289840	COIL, PEAKING, TRF4100AT
L700	23103880	COIL, CHOKE, TEM2011Y
L701	23103866	FILTER, TEM2105T
L702	23103866	FILTER, TEM2105T
L711	23238562	COIL, PEAKING, TRF4109AJ
L712	23238562	COIL, PEAKING, TRF4109AJ
L713	23238562	COIL, PEAKING, TRF4109AJ
L714	23238562	COIL, PEAKING, TRF4109AJ
L720	23289102	COIL, PEAKING, TRF4102AF
L721	23237805	COIL, PEAKING, TRF4222AC
L722	23289102	COIL, PEAKING, TRF4102AF
L723	23237805	COIL, PEAKING, TRF4222AC
L724	23289102	COIL, PEAKING, TRF4102AF
L725	23237805	COIL, PEAKING, TRF4222AC
L726	23289102	COIL, PEAKING, TRF4102AF
L727	23237805	COIL, PEAKING, TRF4222AC
L728	23289102	COIL, PEAKING, TRF4102AF
L729	23237805	COIL, PEAKING, TRF4222AC
L730	23289102	COIL, PEAKING, TRF4102AF
L731	23237805	COIL, PEAKING, TRF4222AC
L737	23289560	COIL, PEAKING, TRF4560AF
L738	23289560	COIL, PEAKING, TRF4560AF
L739	23289560	COIL, PEAKING, TRF4560AF
L740	23289560	COIL, PEAKING, TRF4560AF
L753	23103866	FILTER, TEM2105T

Location No.	Parts No.	Description
L754	23103866	FILTER, TEM2105T
L803	23103880	COIL, CHOKE, TEM2011Y
L804	23103894	FILTER, FERRITE BEAD, TEM2011AW
L823	23248073	COIL, CHOKE, TLN3299D
L824	23248073	COIL, CHOKE, TLN3299D
L839	23289842	COIL, PEAKING, TRF4220AT
L853	23248320	COIL, CHOKE 15X23H 100MMH 2.5A TLN3441AH @U102
	23248073	COIL, CHOKE, TLN3299D @U902
L854	23248320	COIL, CHOKE 15X23H 100MMH 2.5A TLN3441AH
L856	23103880	COIL, CHOKE, TEM2011Y
L857	23103880	COIL, CHOKE, TEM2011Y
L858	23103880	COIL, CHOKE, TEM2011Y
L859	23103880	COIL, CHOKE, TEM2011Y
L860	23280018	COIL, PEAKING, TRF4220AZ
L861	23103880	COIL, CHOKE, TEM2011Y
L862	23248073	COIL, CHOKE, TLN3299D
L863	23103880	COIL, CHOKE, TEM2011Y
L866	23248073	COIL, CHOKE, TLN3299D
L868	23103880	COIL, CHOKE, TEM2011Y
L869	23103880	COIL, CHOKE, TEM2011Y
L871	70211045	COIL, CHOKE, 0.02MH-2.5, 20MMH
L961	23289100	COIL, PEAKING, TRF4100AF
L962	23237991	COIL, PEAKING, TRF4479AC
L963	23237975	COIL, PEAKING, TRF4101AC
L4471	23289840	COIL, PEAKING, TRF4100AT
L7701	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7702	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7703	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7704	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7705	23103894	FILTER, FERRITE BEAD, TEM2011AW
L7706	23103894	FILTER, FERRITE BEAD, TEM2011AW
LA01	23289840	COIL, PEAKING, TRF4100AT
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103828	INDUCTOR, BEAD, TEM2121M
LC03	23103828	INDUCTOR, BEAD, TEM2121M
LC04	23103828	INDUCTOR, BEAD, TEM2121M
LC05	23103828	INDUCTOR, BEAD, TEM2121M
LC06	23103828	INDUCTOR, BEAD, TEM2121M
LC07	23238562	COIL, PEAKING, TRF4109AJ
LC08	23238562	COIL, PEAKING, TRF4109AJ
LC09	23103828	INDUCTOR, BEAD, TEM2121M
LC10	23103828	INDUCTOR, BEAD, TEM2121M
LC11	23103828	INDUCTOR, BEAD, TEM2121M
LC12	23238562	COIL, PEAKING, TRF4109AJ @U903A
LC43	23103828	INDUCTOR, BEAD, TEM2121M
LC45	23238562	COIL, PEAKING, TRF4109AJ
LG102	23103828	INDUCTOR, BEAD, TEM2121M
LR01	23289109	COIL, PEAKING, TRF41R0AF
LR02	23289109	COIL, PEAKING, TRF41R0AF
LR22	23103146	EMI FILTER, TEM2030AA
LR23	23103146	EMI FILTER, TEM2030AA
LT01	23103828	INDUCTOR, BEAD, TEM2121M
LT02	23103828	INDUCTOR, BEAD, TEM2121M
LT03	23103828	INDUCTOR, BEAD, TEM2121M
LT04	23103828	INDUCTOR, BEAD, TEM2121M
LT05	23103828	INDUCTOR, BEAD, TEM2121M
LT07	23103828	INDUCTOR, BEAD, TEM2121M
LT08	23103828	INDUCTOR, BEAD, TEM2121M
LT09	23103828	INDUCTOR, BEAD, TEM2121M
LT11	23103828	INDUCTOR, BEAD, TEM2121M
LT12	23103828	INDUCTOR, BEAD, TEM2121M
LV09	23289840	COIL, PEAKING, TRF4100AT
LV42	23289840	COIL, PEAKING, TRF4100AT
LV43	23289840	COIL, PEAKING, TRF4100AT
LW01	23103806	INDUCTOR, BEAD, TEM2114T
LW02	23103806	INDUCTOR, BEAD, TEM2114T @U105
	23261974	COIL, FERRITE BEAD, HC5-035 @U901D
LW03	23103806	INDUCTOR, BEAD, TEM2114T
LW04	23103859	FILTER, FERRITE CHOKE, TEM2011 @U901D
LW05	23103822	INDUCTOR, BEAD, TEM2117T @U105
	23103859	FILTER, FERRITE CHOKE, TEM2011 @U901D
LW06	23103822	INDUCTOR, BEAD, TEM2117T
LW07	23103822	INDUCTOR, BEAD, TEM2117T
LW08	23289100	COIL, PEAKING, TRF4100AF
LW09	23103822	INDUCTOR, BEAD, TEM2117T
LW10	23103806	INDUCTOR, BEAD, TEM2114T

Location No.	Parts No.	Description
LW12	23238718	COIL, PEAKING, TRF4479AJ
LW13	23238702	COIL, PEAKING, TRF4101AJ
LW14	23238702	COIL, PEAKING, TRF4101AJ
LW15	23238718	COIL, PEAKING, TRF4479AJ
LW16	23238718	COIL, PEAKING, TRF4479AJ
LW17	23238718	COIL, PEAKING, TRF4479AJ
LW41	23103806	INDUCTOR, BEAD, TEM2114T
LW42	23103806	INDUCTOR, BEAD, TEM2114T
LW80	23238562	COIL, PEAKING, TRF4109AJ
LW81	23238562	COIL, PEAKING, TRF4109AJ
⚠ T400	23224386	TRANSFORMER, FOCUS, TLN2220AH
T401	23224367	TRANSFORMER, HORIZ DRIVER, TLN1098AH
⚠ T461A	23192961	ANODE CAP ASSY, TCC5605AU
⚠ T801	23211736	COIL, LINE FILTER, TRF3231AL
⚠ T802	23217603	TRANSFORMER, CHOKE 52MH 1.05 TPW2049AT
⚠ T803	23217587	TRANSFORMER, POWER TPW1562BZ TPW1562BZ
⚠ T862	23217643	TRANSFORMER, CONVERTER TPW3447BS
G103	23103828	INDUCTOR, BEAD, TEM2121M
G510	23289479	COIL, PEAKING, TRF44R7AF
GA37	23103828	INDUCTOR, BEAD, TEM2121M
GA38	23103828	INDUCTOR, BEAD, TEM2121M
GA39	23103828	INDUCTOR, BEAD, TEM2121M
GA40	23103828	INDUCTOR, BEAD, TEM2121M
GA41	23103828	INDUCTOR, BEAD, TEM2121M
GC02	23103828	INDUCTOR, BEAD, TEM2121M
GC04	23103828	INDUCTOR, BEAD, TEM2121M
GC15	23103828	INDUCTOR, BEAD, TEM2121M
GC16	23103828	INDUCTOR, BEAD, TEM2121M
GC17	23103828	INDUCTOR, BEAD, TEM2121M
SEMICONDUCTORS		
Q201	23314965	TRANSISTOR, KTC3198 Y
Q202	23314962	TRANSISTOR, KTA1266 Y
Q203	23314962	TRANSISTOR, KTA1266 Y
Q204	23314962	TRANSISTOR, KTA1266 Y
Q209	23205005	TRANSISTOR, KTA2014Y
Q210	23205005	TRANSISTOR, KTA2014Y
Q211	23205006	TRANSISTOR, KTC4075Y
Q212	23205006	TRANSISTOR, KTC4075Y
Q241	23114755	TRANSISTOR, 2SC2482FA-1
Q261	23205005	TRANSISTOR, KTA2014Y
Q262	23205006	TRANSISTOR, KTC4075Y
Q263	23205006	TRANSISTOR, KTC4075Y
Q274	23205006	TRANSISTOR, KTC4075Y
Q301	23319787	IC, LA7833S
Q302	23905266	IC, TA8859CP
Q304	70119059	IC, OP AMP, TA75902P(J)
Q305	23205112	TRANSISTOR, 2SA1980UF-Y
Q306	70119059	IC, OP AMP, TA75902P(J)
Q307	23205116	TRANSISTOR, 2SC5343UF-Y
Q370	23205006	TRANSISTOR, KTC4075Y
Q371	23205005	TRANSISTOR, KTA2014Y
Q372	23205006	TRANSISTOR, KTC4075Y
Q381	23205006	TRANSISTOR, KTC4075Y
Q400	23205079	TRANSISTOR, 2SC4686A
Q402	23114755	TRANSISTOR, 2SC2482FA-1
Q404	23314955	TRANSISTOR, 2SD2553(FA)
Q405	23114437	TRANSISTOR, 2SC752GTM-Y
Q406	23114437	TRANSISTOR, 2SC752GTM-Y
Q407	23205006	TRANSISTOR, KTC4075Y
Q408	23205005	TRANSISTOR, KTA2014Y
Q409	23205006	TRANSISTOR, KTC4075Y
Q420	23114756	TRANSISTOR, 2SC2482
Q425	23205031	TRANSISTOR, FET, 2SK2920
Q426	23119747	IC, OPE AMP, TA75358P
Q427	70128158	IC, BA10393
Q482	23205116	TRANSISTOR, 2SC5343UF-Y
Q492	23114541	TRANSISTOR, 2SA1320
Q501	23000624	IC, TB1274F(J)
Q504	23205005	TRANSISTOR, KTA2014Y
Q505	23205005	TRANSISTOR, KTA2014Y
Q506	23314965	TRANSISTOR, KTC3198 Y
Q510	23906472	IC, TA1276AN
Q520	23205014	TRANSISTOR, 2SC4667-O
Q521	23114501	TRANSISTOR, RN1402
Q522	23205005	TRANSISTOR, KTA2014Y

Location No.	Parts No.	Description
Q523	23205005	TRANSISTOR, KTA2014Y
Q524	23205014	TRANSISTOR, 2SC4667-O
Q610	23000269	IC, TA8216H
Q611	70114396	TRANSISTOR, 2SC3326B
Q612	70114396	TRANSISTOR, 2SC3326B
Q614	23114499	TRANSISTOR, RN1404
Q615	23205005	TRANSISTOR, KTA2014Y
Q616	23205005	TRANSISTOR, KTA2014Y
Q617	23119690	IC, OP AMP, TA75458P
Q618	23205006	TRANSISTOR, KTC4075Y
Q619	23205006	TRANSISTOR, KTC4075Y
Q620	23114493	TRANSISTOR, RN2404
Q621	70114396	TRANSISTOR, 2SC3326B
Q624	70114396	TRANSISTOR, 2SC3326B
Q625	23114493	TRANSISTOR, RN2404
Q626	23205006	TRANSISTOR, KTC4075Y
Q701	23000380	IC, TC190C060AF-301(Z)
Q703	23905014	IC, LC78816M
Q704	23905014	IC, LC78816M
Q705	23905014	IC, LC78816M
Q707	23905013	IC, TLC2932IPW
Q709	23906908	IC, MC33078D
Q711	23009647	IC, AT24C16A-10PI
Q712	23009647	IC, AT24C16A-10PI
Q713	23009647	IC, AT24C16A-10PI
Q714	23318977	IC, MC14052BF
Q715	23906908	IC, MC33078D
Q717	23906908	IC, MC33078D
Q719	23906908	IC, MC33078D
Q750	23000928	IC, SLA4501M
Q751	23000928	IC, SLA4501M
Q753	23000928	IC, SLA4501M
Q754	23319867	IC, NJM7805FA
Q755	23319888	IC, NJM7809FA
Q756	23319906	IC, NJM7912FA
Q761	70128158	IC, BA10393
Q762	23000044	IC, TC4066BP(N)
Q764	23319372	IC, TC74HC14AP
Q767	23000044	IC, TC4066BP(N)
Q798	23205006	TRANSISTOR, KTC4075Y
Q801	23906540	IC, STR-Z4267
Q810	23904268	IC, PQ05RR1
Q819	23314965	TRANSISTOR, KTC3198 Y
Q830	23905977	IC, PQ09RD11 @U101
	23314965	TRANSISTOR, KTC3198 Y @U902
Q832	23905976	IC, PQ05RD11
Q843	23314965	TRANSISTOR, KTC3198 Y
⚠ Q862	23904427	IC, PHOTO COUPLER, TLP621(GR-LF2
Q863	23319305	IC, SE140N
Q901	23314971	TRANSISTOR, 2SC5360(FA)
Q902	23114433	TRANSISTOR, 2SC1815-Y
Q911	23314971	TRANSISTOR, 2SC5360(FA)
Q913	23314965	TRANSISTOR, KTC3198 Y
Q921	23314971	TRANSISTOR, 2SC5360(FA)
Q922	23314965	TRANSISTOR, KTC3198 Y
Q961	23114433	TRANSISTOR, 2SC1815-Y
Q962	23114422	TRANSISTOR, 2SA562TM-Y
Q963	23114433	TRANSISTOR, 2SC1815-Y
Q964	23114425	TRANSISTOR, 2SA1015-Y
Q965	23114433	TRANSISTOR, 2SC1815-Y
Q966	23114425	TRANSISTOR, 2SA1015-Y
Q4451	23205006	TRANSISTOR, KTC4075Y
Q4452	23114497	TRANSISTOR, RN1406
Q4453	23114497	TRANSISTOR, RN1406
Q4454	23114497	TRANSISTOR, RN1406
Q4471	23314965	TRANSISTOR, KTC3198 Y
Q9601	23314962	TRANSISTOR, KTA1266 Y
Q9602	23314962	TRANSISTOR, KTA1266 Y
Q9605	23314965	TRANSISTOR, KTC3198 Y
Q9606	23314962	TRANSISTOR, KTA1266 Y
QA01	23009139	IC, 8BIT MICRO COMPUTER 64PIN CXP750010-187
QA02	23009649	IC, AT24C64A-10PI
QA05	23205014	TRANSISTOR, 2SC4667-O
QA60	23205006	TRANSISTOR, KTC4075Y
QA61	23009332	IC, AT24C256-2.7
QB01	23314962	TRANSISTOR, KTA1266 Y

Location No.	Parts No.	Description
QB04	23205005	TRANSISTOR, KTA2014Y
QB05	23205006	TRANSISTOR, KTC4075Y
QB06	23205005	TRANSISTOR, KTA2014Y
QB81	70114396	TRANSISTOR, 2SC3326B
QB82	70114396	TRANSISTOR, 2SC3326B
QB83	23205005	TRANSISTOR, KTA2014Y
QB92	23205006	TRANSISTOR, KTC4075Y
QB93	23205005	TRANSISTOR, KTA2014Y
QB94	23205005	TRANSISTOR, KTA2014Y
QB95	23205005	TRANSISTOR, KTA2014Y
QB96	23205005	TRANSISTOR, KTA2014Y
QR01	23009037	IC, MB90096P-G-23
QR03	23205005	TRANSISTOR, KTA2014Y
QR35	23205006	TRANSISTOR, KTC4075Y
QR36	23205006	TRANSISTOR, KTC4075Y
QR38	23205006	TRANSISTOR, KTC4075Y
QR40	23205006	TRANSISTOR, KTC4075Y
QS01	70114396	TRANSISTOR, 2SC3326B
QS02	70114396	TRANSISTOR, 2SC3326B
QS03	23205006	TRANSISTOR, KTC4075Y
QS04	23205006	TRANSISTOR, KTC4075Y
QS05	70114396	TRANSISTOR, 2SC3326B
QS06	70114396	TRANSISTOR, 2SC3326B
QS07	70114396	TRANSISTOR, 2SC3326B
QS08	70114396	TRANSISTOR, 2SC3326B
QS09	23114493	TRANSISTOR, RN2404
QT01	23009169	IC, SAA5665HL/M1/0606
QT02	23314993	TRANSISTOR, 2SC4081 Q
QT03	70114402	TRANSISTOR, 2SC3437-Y
QT05	23314993	TRANSISTOR, 2SC4081 Q
QT06	23000283	IC, R1121N
QT07	23009815	IC, CY7C1019CV33-12ZCT
QT08	23314993	TRANSISTOR, 2SC4081 Q
QT10	23314993	TRANSISTOR, 2SC4081 Q
QT11	23009114	IC, BD4746G
QT12	23314994	TRANSISTOR, 2SA1576A106
QT13	23314994	TRANSISTOR, 2SA1576A106
QT14	23314994	TRANSISTOR, 2SA1576A106
QT15	23314994	TRANSISTOR, 2SA1576A106
QV01	23000368	IC, MM1495XF
QV02	23205006	TRANSISTOR, KTC4075Y
QV03	23205006	TRANSISTOR, KTC4075Y
QV04	23205006	TRANSISTOR, KTC4075Y
QV05	23205005	TRANSISTOR, KTA2014Y
QV09	23314965	TRANSISTOR, KTC3198 Y
QV12	23314965	TRANSISTOR, KTC3198 Y
QV14	23314965	TRANSISTOR, KTC3198 Y
QW01	23906336	IC, TC90A18AF(BH,DRY)
QW02	23905013	IC, TLC2932IPW
QW03	23318825	IC, TC7S32F
QW04	23318823	IC, TC7S04F
QW05	23318825	IC, TC7S32F
QW06	23904396	IC, TC7S14F @U105
	23314965	TRANSISTOR, KTC3198 Y @U901D
QW07	23904122	IC, TC7S86F @U105
	23114437	TRANSISTOR, 2SC752GTM-Y @U901D
QW09	23314965	TRANSISTOR, KTC3198 Y
QW10	23314204	TRANSISTOR, 2SC2412K,Q @U105
	23314962	TRANSISTOR, KTA1266 Y @U901D
QW11	23314204	TRANSISTOR, 2SC2412K,Q
QW12	23314204	TRANSISTOR, 2SC2412K,Q
QW13	23314204	TRANSISTOR, 2SC2412K,Q
QW14	23314204	TRANSISTOR, 2SC2412K,Q
QW15	23314204	TRANSISTOR, 2SC2412K,Q
QW18	23314204	TRANSISTOR, 2SC2412K,Q
QW19	23314965	TRANSISTOR, KTC3198 Y
QW20	23314204	TRANSISTOR, 2SC2412K,Q @U105
	23314965	TRANSISTOR, KTC3198 Y @U901D
QW21	23314163	TRANSISTOR, 2SA1162-Y
QW22	23314204	TRANSISTOR, 2SC2412K,Q
QW23	23314163	TRANSISTOR, 2SA1162-Y
QW24	23314204	TRANSISTOR, 2SC2412K,Q
QW25	23314163	TRANSISTOR, 2SA1162-Y
QW30	23314475	TRANSISTOR, 2SC2712-Y
QW31	23906295	IC, UPC29M33HB
QW32	70114402	TRANSISTOR, 2SC3437-Y

Location No.	Parts No.	Description
QW40	23314163	TRANSISTOR, 2SA1162-Y
QW41	23314163	TRANSISTOR, 2SA1162-Y
QW42	23314163	TRANSISTOR, 2SA1162-Y
QW43	23314163	TRANSISTOR, 2SA1162-Y
QW51	23314909	TRANSISTOR, 2SA1837
QW52	23314912	TRANSISTOR, 2SC4793
D101	23316755	DIODE, ZENER, MTZJ33C
D201	23316231	DIODE, 1SS355
D301	23357169	DIODE, ZENER, UDZS6.8B
D302	23357365	DIODE, 1N4004A-B5
D304	23316794	DIODE, SC570A
D305	23357365	DIODE, 1N4004A-B5
D306	23357365	DIODE, 1N4004A-B5
D308	23316583	DIODE, ZENER, MA8039-H
D310	23316231	DIODE, 1SS355
D370	23316231	DIODE, 1SS355
D401	23118094	DIODE, EU2A
D402	23357366	DIODE, FR105-B5
D403	23357439	DIODE, VRM=1500V IF(AV)=2.5A RH4F LF-L1
D405	23357439	DIODE, VRM=1500V IF(AV)=2.5A RH4F LF-L1
D406	23357365	DIODE, 1N4004A-B5
D412	23118707	DIODE, RP-1H
D413	23118707	DIODE, RP-1H
D420	23118859	DIODE, 1SS133
D421	23357365	DIODE, 1N4004A-B5
D425	23357366	DIODE, FR105-B5
D426	23118275	DIODE, ZENER, RD18MB2
D461	23316969	DIODE, ERD29-06
D490	23357270	DIODE, ZENER, DZ6.2 BS B @U102
	23118859	DIODE, 1SS133 @U902
D491	23316231	DIODE, 1SS355 @U102
	23357329	DIODE, ZV=32.79-34.49 DZ36 BS B @U902
D492	23118621	DIODE, ZENER, RD10ESA B3
D503	23316231	DIODE, 1SS355
D505	23316231	DIODE, 1SS355 @U101
	23118859	DIODE, 1SS133 @U102
D506	23357268	DIODE, ZV=5.64-5.88 DZ5.6 BS C
D511	23357037	DIODE, ZENER, UDZS5.6B
D514	23357037	DIODE, ZENER, UDZS5.6B
D515	23357037	DIODE, ZENER, UDZS5.6B
D601	23316231	DIODE, 1SS355
D602	23316231	DIODE, 1SS355
D603	23316231	DIODE, 1SS355
D604	23316231	DIODE, 1SS355
D605	23316231	DIODE, 1SS355
D606	23316231	DIODE, 1SS355
D607	23316231	DIODE, 1SS355
D608	23316231	DIODE, 1SS355
D609	23316231	DIODE, 1SS355
D610	23316231	DIODE, 1SS355
D611	23316231	DIODE, 1SS355
D628	23118269	DIODE, ZENER, RD22MB2
D701	23118859	DIODE, 1SS133
D702	23118859	DIODE, 1SS133
D703	23118859	DIODE, 1SS133
D704	23118859	DIODE, 1SS133
D705	23316675	DIODE, ZENER, MTZJ6.2B
D706	23316675	DIODE, ZENER, MTZJ6.2B
D707	23316675	DIODE, ZENER, MTZJ6.2B
D801	23316962	DIODE, S1WBA20
D802	23357041	DIODE, LN6SB60-F05
D817	23118859	DIODE, 1SS133
D818	23357267	DIODE, DZ5.6 BS B
D820	23357328	DIODE, ZV=32.14-33.79 DZ36 BS A
D821	23118859	DIODE, 1SS133
D830	23115532	DIODE, ERB12-01 @U101
	23118859	DIODE, 1SS133 @U902
D832	23115532	DIODE, ERB12-01
D845	23357215	DIODE, D4SBS6
D854	23357214	DIODE, D4SBS4
D856	23357216	DIODE, D4SBL20U
D858	23118859	DIODE, 1SS133
D860	23357217	DIODE, D4SBL40
D862	23118057	DIODE, AG01A
D863	23357284	DIODE, ZV=9.19-9.59 DZ10 BS A
D864	23118060	DIODE, AL01Z

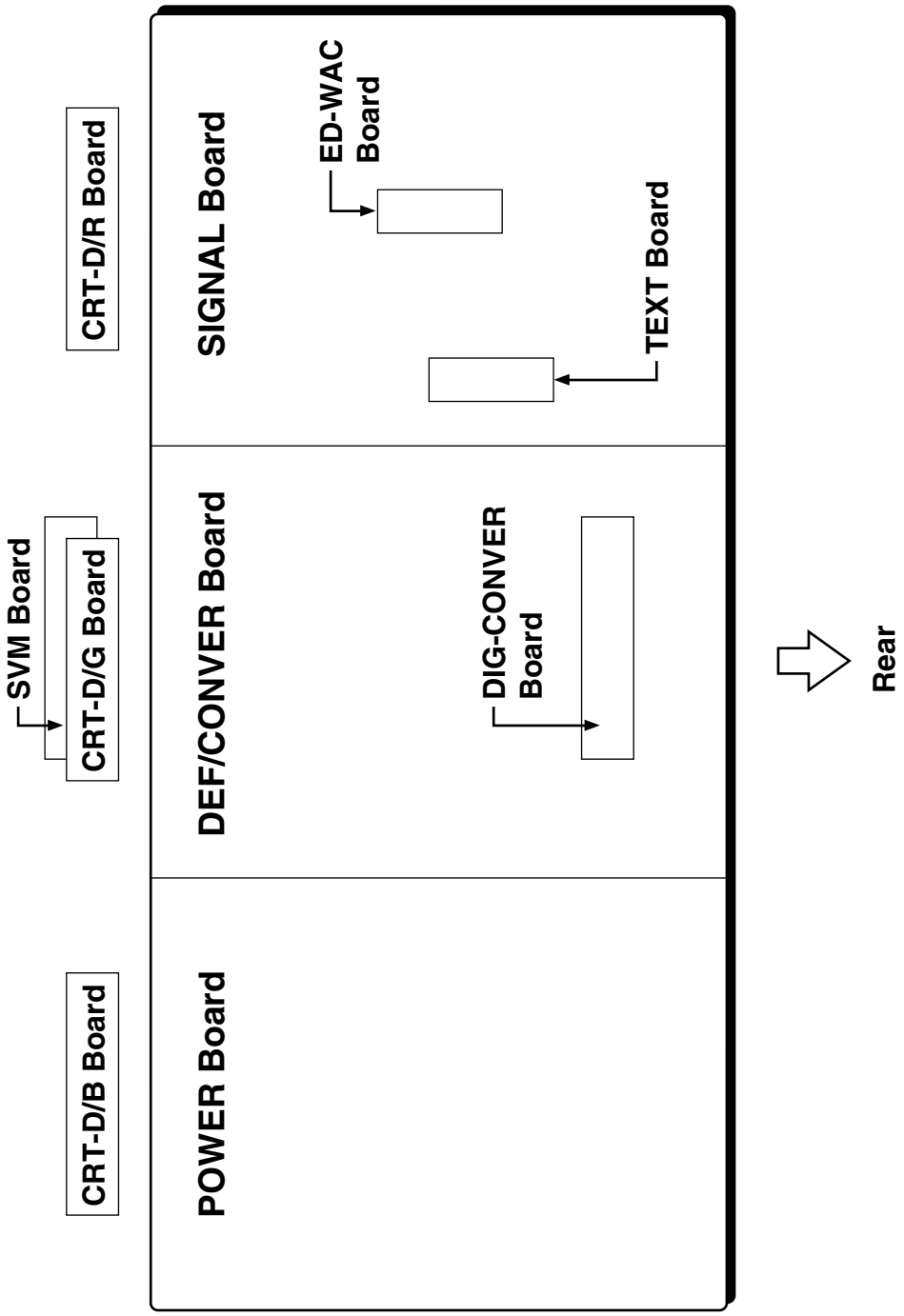
Location No.	Parts No.	Description
D873	23357318	DIODE, ZV=25.63-26.95 DZ27 BS C
D875	23357283	DIODE, DZ9.1 BS C
D876	23357324	DIODE, ZV=29.68-31.22 DZ33 BS A
D877	23357318	DIODE, ZV=25.63-26.95 DZ27 BS C
D878	23357281	DIODE, DZ9.1 BS A
D881	23357365	DIODE, 1N4004A-B5
D882	23115532	DIODE, ERB12-01
D883	23115532	DIODE, ERB12-01
D884	23115532	DIODE, ERB12-01
D885	23115532	DIODE, ERB12-01
D893	23316669	DIODE, ZENER, MTZJ5.1B
D894	23316745	DIODE, ZENER, MTZJ27A
D901	23118859	DIODE, 1SS133
D902	23118859	DIODE, 1SS133
D911	23118859	DIODE, 1SS133
D912	23118859	DIODE, 1SS133
D914	23118859	DIODE, 1SS133
D921	23118859	DIODE, 1SS133
D922	23118859	DIODE, 1SS133
D924	23118859	DIODE, 1SS133
D925	23118859	DIODE, 1SS133
D965	23118859	DIODE, 1SS133
D966	23118859	DIODE, 1SS133
D4401	23316231	DIODE, 1SS355
D4402	23316231	DIODE, 1SS355
D4451	23357365	DIODE, 1N4004A-B5
D4452	23357170	DIODE, ZENER, UDZS8.2B
D4453	23316231	DIODE, 1SS355
D4471	23357172	DIODE, ZENER, UDZS10B
D4472	23316231	DIODE, 1SS355
D7703	23357270	DIODE, ZENER, DZ6.2 BS B
D7705	23316231	DIODE, 1SS355
D7706	23316231	DIODE, 1SS355
D7707	23316231	DIODE, 1SS355
D7708	23316231	DIODE, 1SS355
D7710	23357288	DIODE, ZV=10.50-10.95 DZ11 BS B
D7713	23316231	DIODE, 1SS355
D7736	23316231	DIODE, 1SS355
D7743	23357365	DIODE, 1N4004A-B5
D7744	23357365	DIODE, 1N4004A-B5
DA42	23357268	DIODE, ZV=5.64-5.88 DZ5.6 BS C
DB01	23358564	DIODE, LED, SLR-56VC3FPQ
DB02	23358563	DIODE, LED, SLR-56MC3FPQR
DR01	23316231	DIODE, 1SS355
DR02	23316231	DIODE, 1SS355
DR03	23316231	DIODE, 1SS355
DR61	23316231	DIODE, 1SS355
DR62	23316231	DIODE, 1SS355
DR63	23316231	DIODE, 1SS355
DR70	23357037	DIODE, ZENER, UDZS5.6B
DV08	23316231	DIODE, 1SS355
DW04	23118859	DIODE, 1SS133
DW05	23118859	DIODE, 1SS133
DW21	23118859	DIODE, 1SS133
G005	23118859	DIODE, 1SS133
KB01	23000852	IC, REMOTE PHOTO RECEIVER, PIC-37043TE2
MISCELLANEOUS		
B222	23974994	BAND, KESSOKU
B231	23845856	WIRE CLAMP, POF COAT) L=70MM
B236	23067312	CARTON, BOX 21S1T
B245	23974994	BAND, KESSOKU
BB20A	23902749	CONNECTOR, SOCKET, B-B 6P
BB21A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB21B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB23	23902749	CONNECTOR, SOCKET, B-B 6P
BB23B	23368517	CONNECTOR, PLUG, B-B 6P
BB24A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB24B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB80A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB80B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB82A	23713013	CONNECTOR, SOCKET, B-B 16P 1.5
BB82B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB85A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB85B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB85C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E

Location No.	Parts No.	Description
BB701	23368517	CONNECTOR, PLUG, B-B 6P
D819	23316454	SCR, SF0R3G42NG5H
D845B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
⚠ F801	23144507	FUSE, CARTRIDGE 5.2X20 250V 3.15A
F801A	23165102	FUSE HOLDER, CLIP, PC-BOARD D=5.2
H002	23148745	MODULE, NICAM/IGR A-PRO MPSN11C
P605A	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4
P661	23365444	EARPONE JACK, D3.5 HOSIDEN
P701	23367724	CONNECTOR, PLUG B-B 15P
P702	23367724	CONNECTOR, PLUG B-B 15P
P704B	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P706A	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
P708	23902655	CONNECTOR, B-B 15P
P709	23902655	CONNECTOR, B-B 15P
P713	23164787	CONNECTOR, PLUG, 7P
P714	23164787	CONNECTOR, PLUG, 7P
P715	23164787	CONNECTOR, PLUG, 7P
P800	23368013	CONNECTOR, PLUG, 2P 11.88MM W VT-JST
⚠ P801	23372151	POWER CORD, AC250V3A L/FUSE13A GB13F1 FUSE13A @E801B
⚠	23372052	POWER CORD, 250V2.5A @E801C
P902A	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
P903B	23367069	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A
P914A	23367072	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B12B-EH-F1A
P914B	23367072	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B12B-EH-F1A
P915A	23367071	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B11B-EH-F1A
P915B	23367071	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B11B-EH-F1A
P917B	23367069	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A
PB11A	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
PB11B	23368578	CONNECTOR, PLUG 4P, 2.5MM G JST-EH, B4B-EH-F1-TV4
PB12A	23368580	CONNECTOR, PLUG 6P, 2.5MM G JST-EH B6B-EH-F1-TV4
PB12B	23368584	CONNECTOR, PLUG, 3P2.5MM W EH-JST S3B-EH
PB13A	23368579	CONNECTOR, PLUG 5P, 2.5MM G JST-EH, B5B-EH-F1-TV4
PF01	23902655	CONNECTOR, B-B 15P
PH02	23365598	CONNECTOR, 21 PIN, 2100RFT
PT01	23367724	CONNECTOR, PLUG B-B 15P
PV14B	23367068	CONNECTOR, PLUG 8P, 2.5MM G JST-EH B8B-EH-F1-TV4
PV15B	23367069	CONNECTOR, PLUG, NP 2.5MM G JST-EH, B9B-EH-F1A
PV16A	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
PV16B	23368577	CONNECTOR, PLUG, 3P 2.5MM G JST-EH, B3B-EH-F1-TV4
PW01	23368130	CONNECTOR, PLUG B-B 10P
PW02	23368130	CONNECTOR, PLUG B-B 10P
PW06	23902213	CONNECTOR, SOCKET B-B 10P
PW07	23902213	CONNECTOR, SOCKET B-B 10P
Q810B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q830B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
Q832B	70391355	SCREW, BIND HEAD TAP-TITE B, BITTB 3X8 SZN
⚠ S801	23344482	SWITCH, ESB92S NAE ESB92S28B
SA01	23145430	SWITCH, PUSH, SKHHLMA010
SA02	23145430	SWITCH, PUSH, SKHHLMA010
SA03	23145430	SWITCH, PUSH, SKHHLMA010
SA04	23145430	SWITCH, PUSH, SKHHLMA010
SA06	23145430	SWITCH, PUSH, SKHHLMA010
⚠ SR81	23146574	RELAY, DLS5D1-O(M) 0.15W
⚠ V901A	23903148	SOCKET, ISH-44S-E ICE #5
⚠ V902A	23903148	SOCKET, ISH-44S-E ICE #5
⚠ V903A	23903148	SOCKET, ISH-44S-E ICE #5
W661	23351237	SPEAKER, 120X120 8-OHM 15W SPK-1390AN
W662	23351237	SPEAKER, 120X120 8-OHM 15W SPK-1390AN
X501	23153438	CRYSTAL, 16.200 25PPM 25OHM
X4402	23153721	CERAMIC RESONATOR, 503KHZ
XA01	23153497	CERAMIC RESONATER, TCR1080AM
XT01	23153930	CRYSTAL
⚠ Z410	23110852	FOCUS PACK, TPA6031BG
⚠ Z410A	23505177	CABLE, FOCUS
⚠ Z450	24083013	COMPOSITE PARTS, CR-BLOCK, TPA5010AH
Z702	23103823	COIL, FILTER, TEM2027D
Z703	23103823	COIL, FILTER, TEM2027D
Z704	23103823	COIL, FILTER, TEM2027D
Z705	23103823	COIL, FILTER, TEM2027D
Z706	23103823	COIL, FILTER, TEM2027D
Z707	23103823	COIL, FILTER, TEM2027D
Z711	23103823	COIL, FILTER, TEM2027D
Z712	23103823	COIL, FILTER, TEM2027D
Z853	23144608	PROTECTOR, PRT SERIES, DC60V/AC90V 4000MA
Z856	23144605	PROTECTOR, PRT SERIES, DC60V/AC90V 2000MA
Z857	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA

Location No.	Parts No.	Description
Z858	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
Z859	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
Z860	23144480	PROTECT0R, CURRENT, AC125V 3.15A
PC BOARD ASSEMBLIES		
✻ U101	23762115	PC BOARD ASSY, SIGNAL PU PD0380F
✻ U102	23762116	PC BOARD ASSY, DEF/CONV PU PD0381E
✻ U103	23762117	PC BOARD ASSY, D-CONVER PU PD0382D
✻ U104	23762118	PC BOARD ASSY, TEXT-P2 PU PD0267J
✻ U105	23762119	PC BOARD ASSY, ED-WAC PU PB8892C
✻ U901A	23762120	PC BOARD ASSY, CRTD RED PU PD0383D1
✻ U901B	23762121	PC BOARD ASSY, CRTD GREEN PU PD0383D2
✻ U901C	23762122	PC BOARD ASSY, CRTD BLUE PU PD0383D3
✻ U901D	23762123	PC BOARD ASSY, SVM PU PD0383D4
✻ U902	23762124	PC BOARD ASSY, MAIN-POWER PU PD0384C
✻ U903A	23762125	PC BOARD ASSY, FRONT IN PU PD1103F1
✻ U903B	23762126	PC BOARD ASSY, RMT IN PU PD1103F2
✻ U903C	23762127	PC BOARD ASSY, IND PU PD1103F3
PICTURE TUBE		
V911R	23587158	SERVICE KIT, SERVICE KIT CRT-R
V912B	23587159	SERVICE KIT, SERVICE KIT CRT-B
V913G	23587160	SERVICE KIT, SERVICE KIT CRT-G
TUNER		
H001	23321398	TUNER, TADF4-003A, EURO IF ALPS
ACCESSORIES		
A701	23064861	CARTON, CARTON
A702	23946233	PACKING, TOP PACKING
A703	23946234	PACKING, TOP PACKING
A726	23974753	POLYPROPYLENE BAND, 3327DB
A727	23974753	POLYPROPYLENE BAND, 3327DB
⚠ K902	23306435	REMOCON HAND UNIT IR, CTVPAL CT-90101 @Y001B
	23306435	REMOCON HAND UNIT IR, CTVPAL CT-90101 @Y001C
⚠ Y101A	23566141	OWNER'S MANUAL, ENGLISH @Y001B
⚠	23566141	OWNER'S MANUAL, ENGLISH @Y001C
⚠ Y101E	23566142	OWNER'S MANUAL, EURO
CABINET PARTS		
A001	23429097	CABINET, WOOD CABINET 42PW33Q
A125	23560038	LABEL, ATTENTION SERVICE
A201	23532201	COVER, BEZEL ASSY
A225	23445784	BUTTON, POWER BUTTON
A258	23530851	COVER, SPEAKER GRILLE ASSEY
A266	23450659	PANEL, POLE SPK GRILLE(RIGHT)
A268	23450660	PANEL, POLE SPK GRILLE(LEFT)
A420	23532099	COVER, MIRROR COVER
⚠ A424	23429099	CABINET, VENT BACK BOARD 42PW33Q
E921	23964147	COOLANT, COOLANT
E929	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
E951	23964147	COOLANT, COOLANT
E959	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
E981	23964147	COOLANT, COOLANT
E989	23969684	TAPE, GLASS-CLOTH, W/ADHESIVE W=90 T=0.18
K101	23405101	LENS, DELTA71-A/B
K102	23405101	LENS, DELTA71-A/B
K103	23405101	LENS, DELTA71-A/B
K501	23311897	SCREEN, 42KL LENTICULAR SHEET
K502	23311921	SCREEN, 42KLU FRESNEL SHEET
K601	23405108	MIRROR, MIRROR 42W SECOND

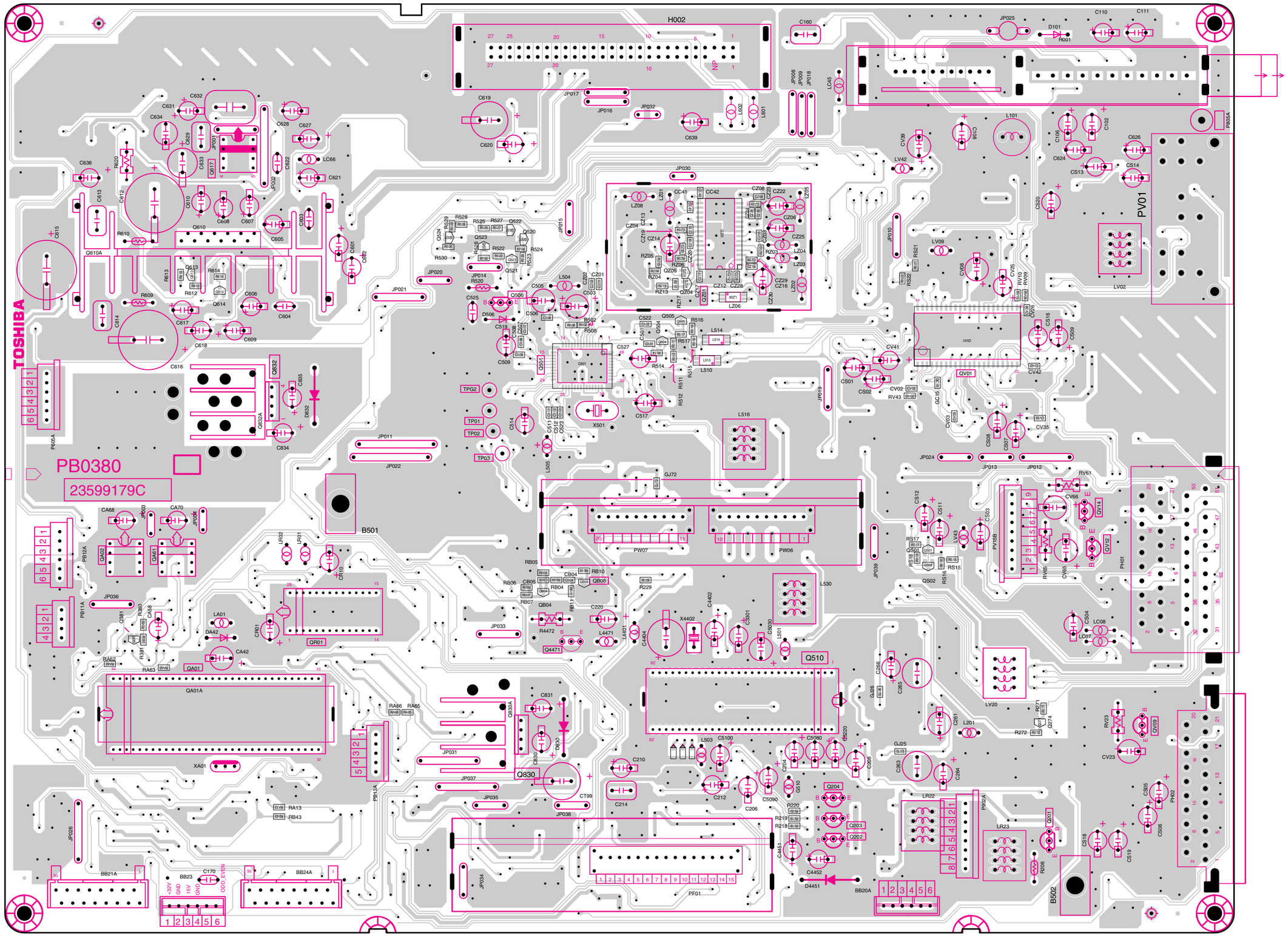
Location No.	Parts No.	Description

PC BOARDS LAYOUT TOP VIEW



SIGNAL BOARD PD0380F (U101)

TOP (FOIL) SIDE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PV01
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C624
C626
CS13
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RA62
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RB43
PB13A
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BB23
BB24A
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15V
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CV42
CV02
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CV03
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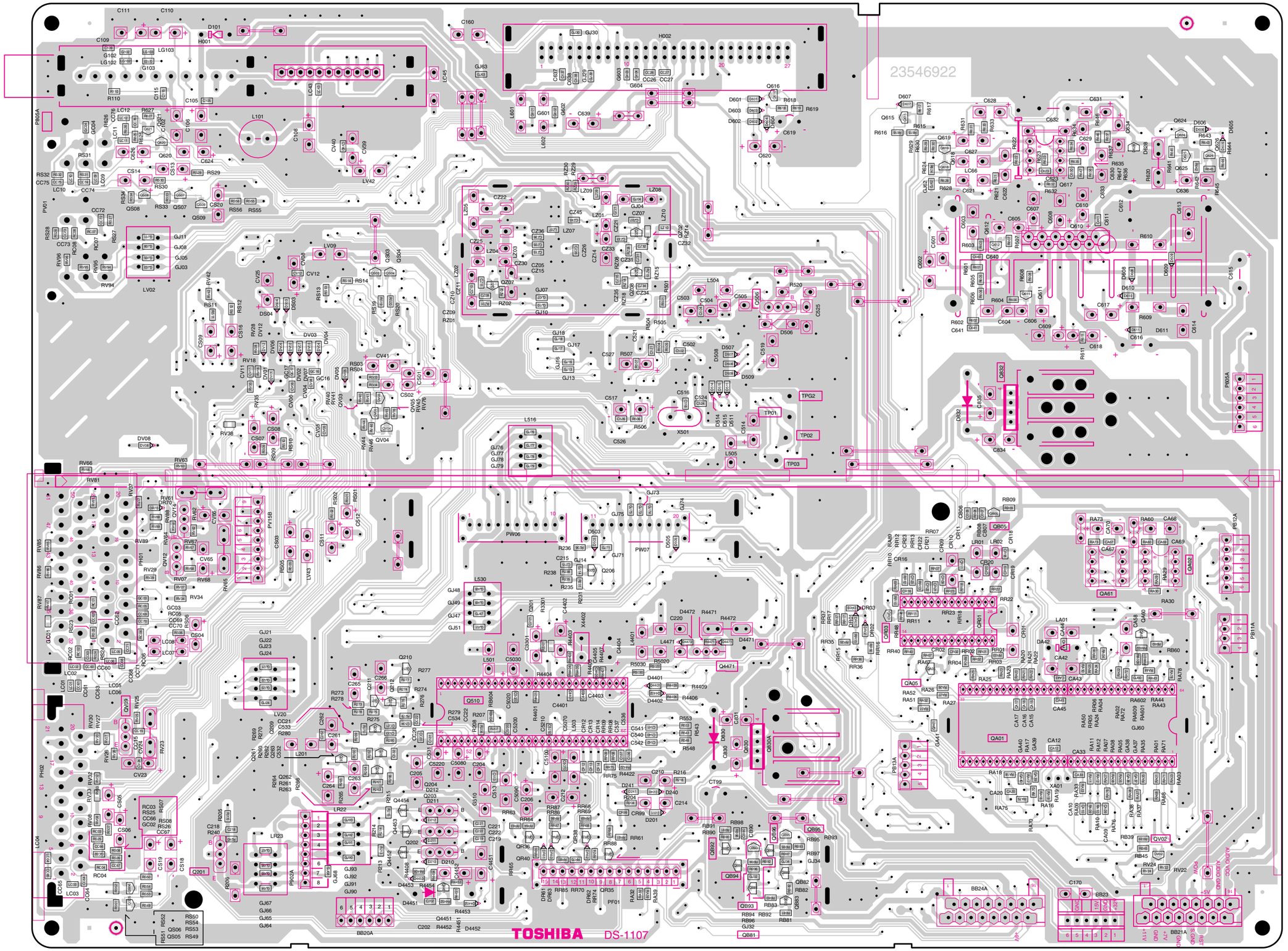
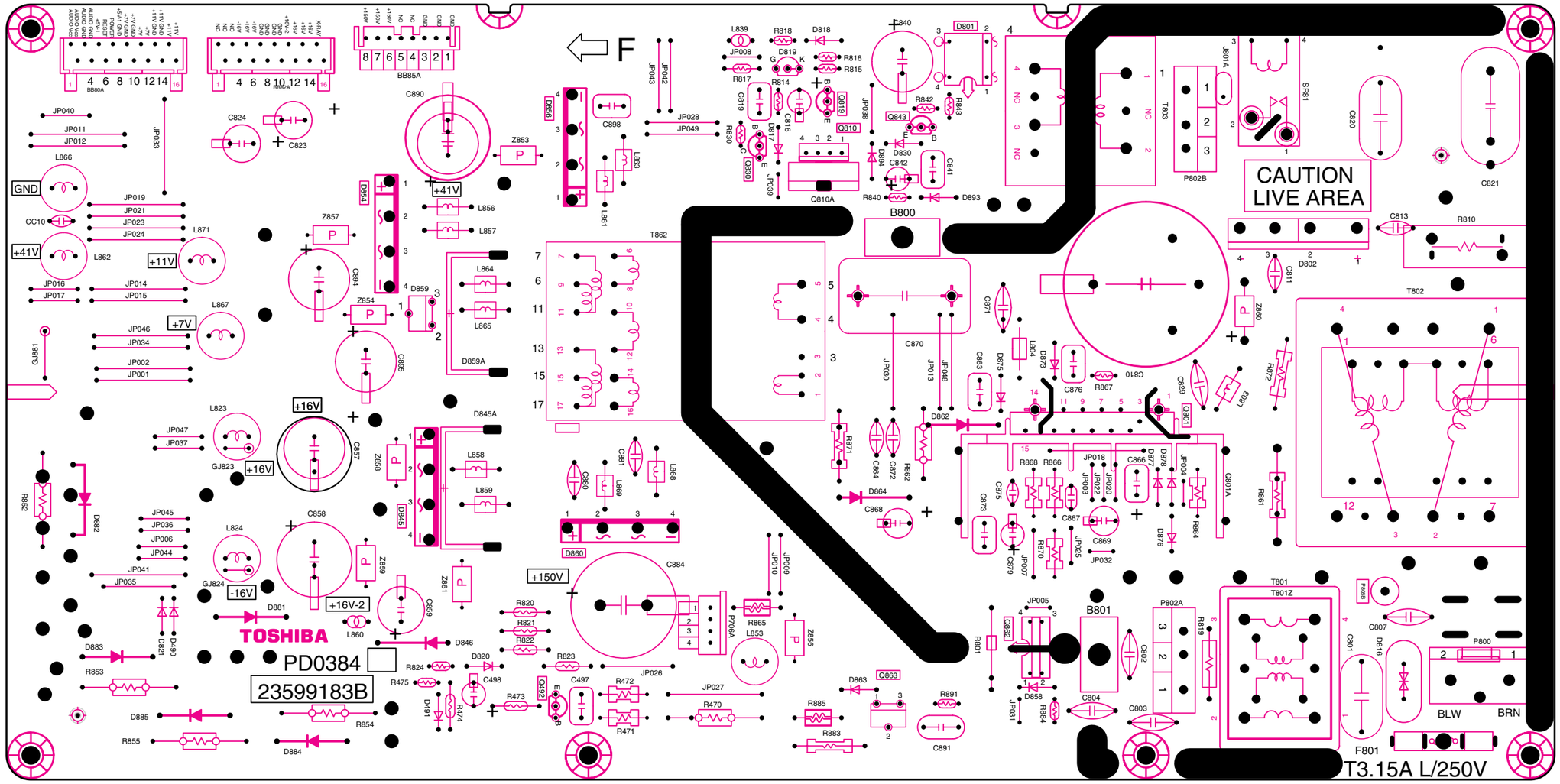
SIGNAL BOARD PD0380F (U101)

BOTTOM (FOIL) SIDE



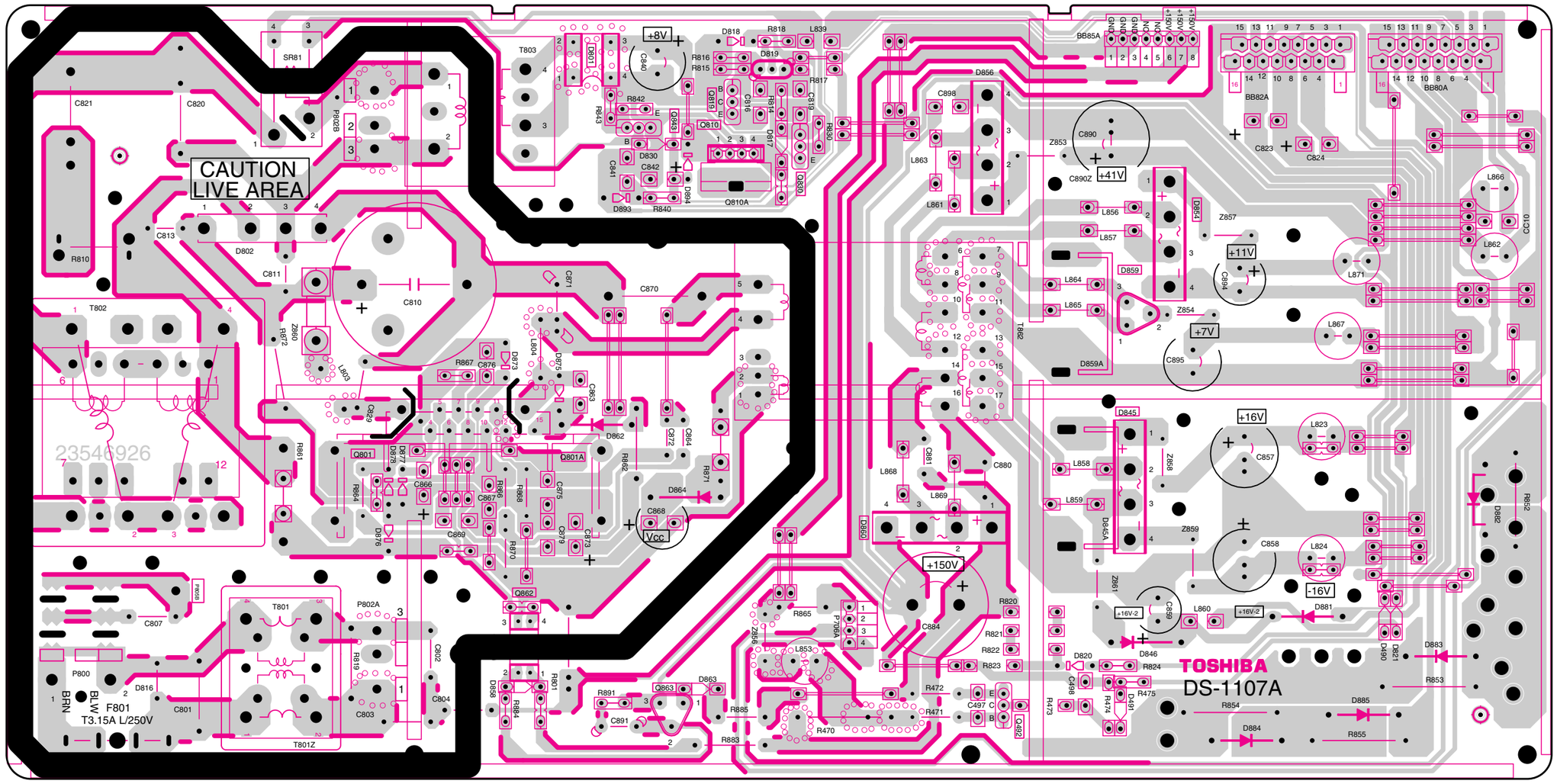
MAIN/POWER BOARD PD0384C (U902)

TOP (FOIL) SIDE



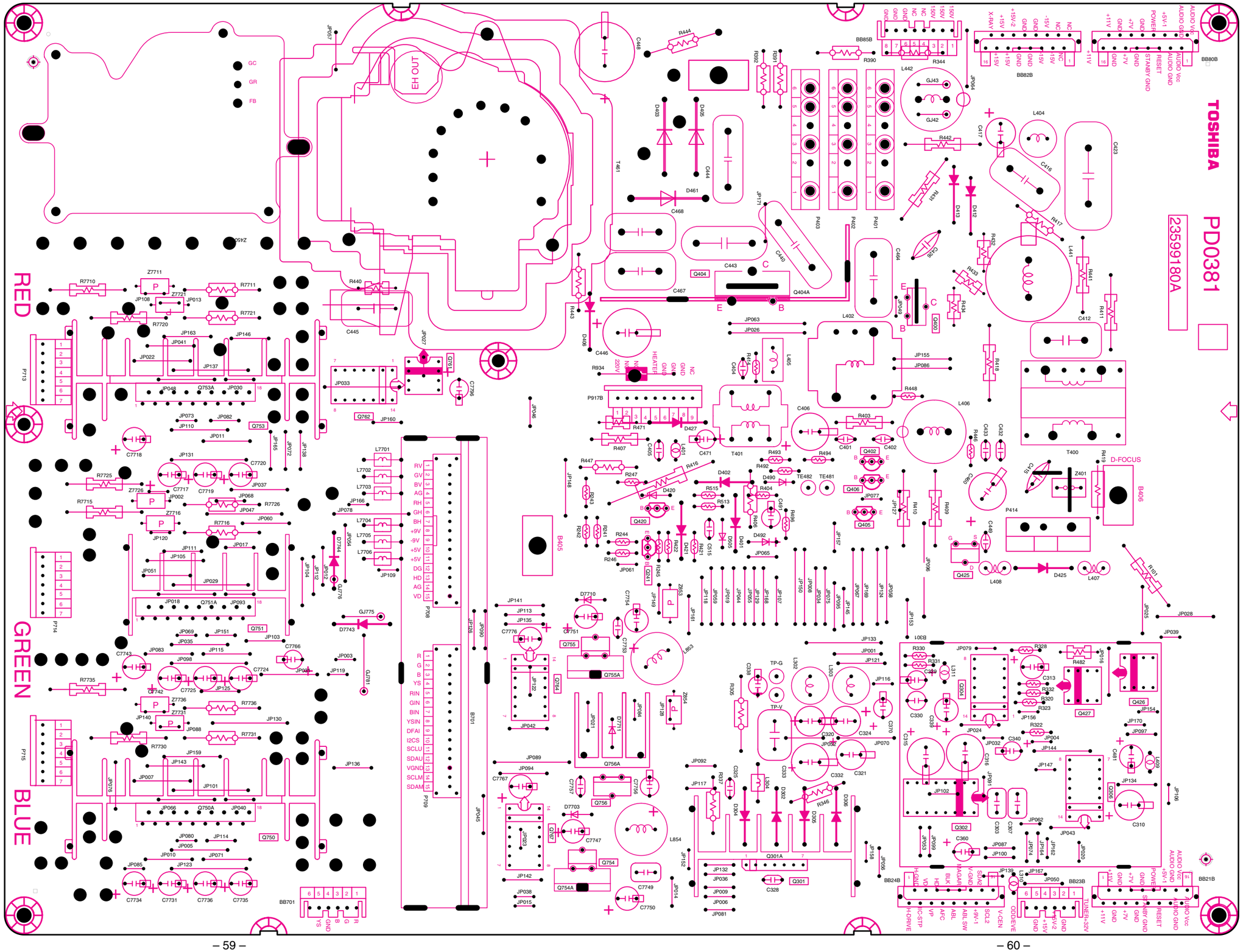
MAIN/POWER BOARD PD0384C (U902)

BOTTOM (FOIL) SIDE



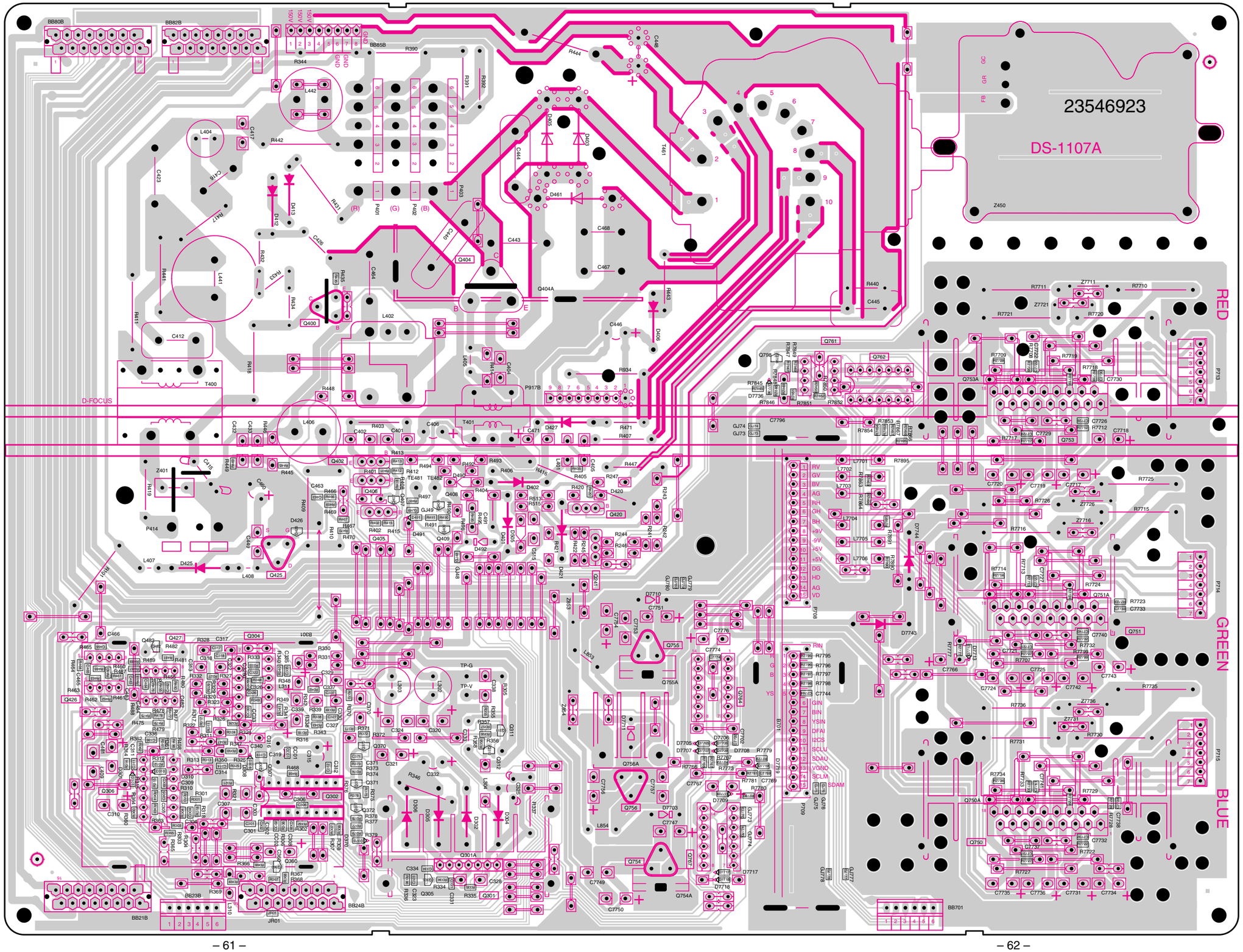
DEF/CONV BOARD PD0381E (U102)

TOP (FOIL) SIDE



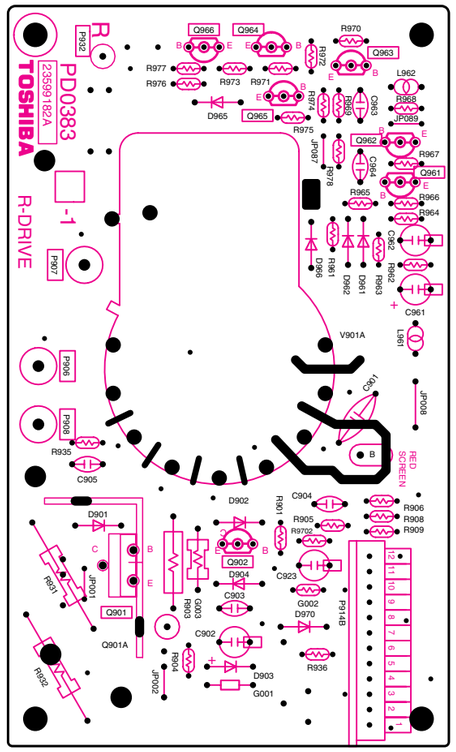
DEF/CONV BOARD PD0381E (U102)

BOTTOM (FOIL) SIDE



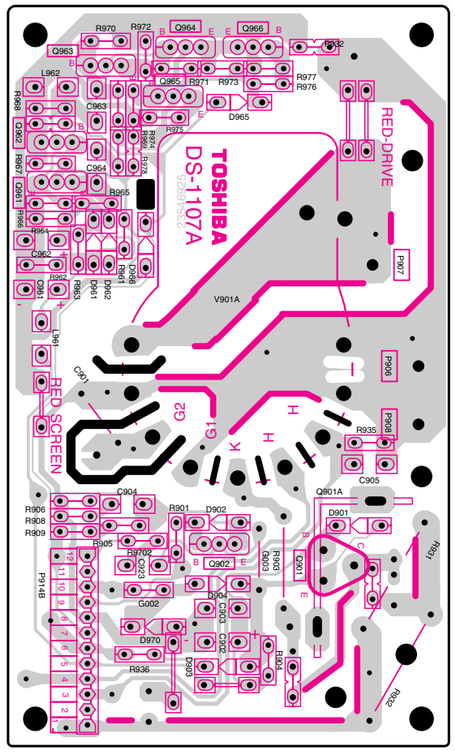
CRT-D RED BOARD PD0383D1 (U901A)

TOP (FOIL) SIDE



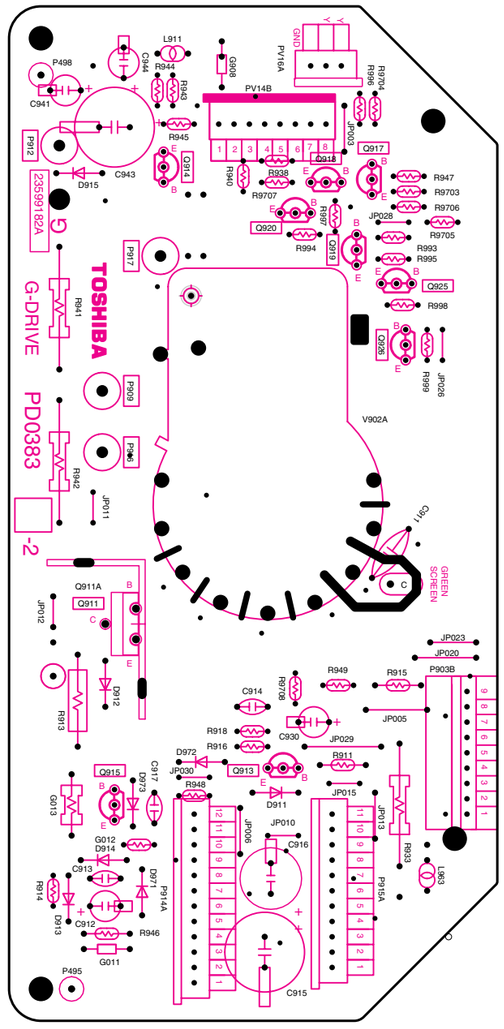
CRT-D RED BOARD PD0383D1 (U901A)

BOTTOM (FOIL) SIDE



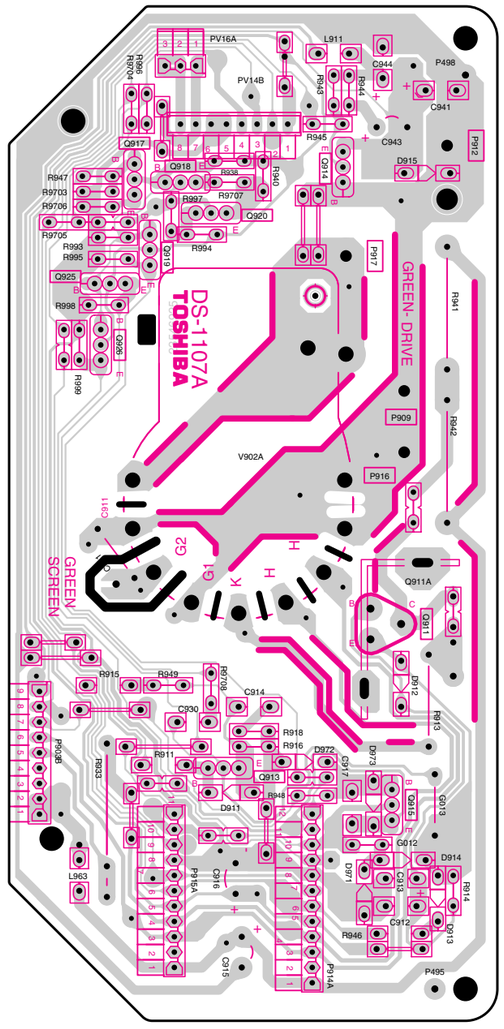
CRT-D GREEN BOARD PD0383D2 (U901B)

TOP (FOIL) SIDE



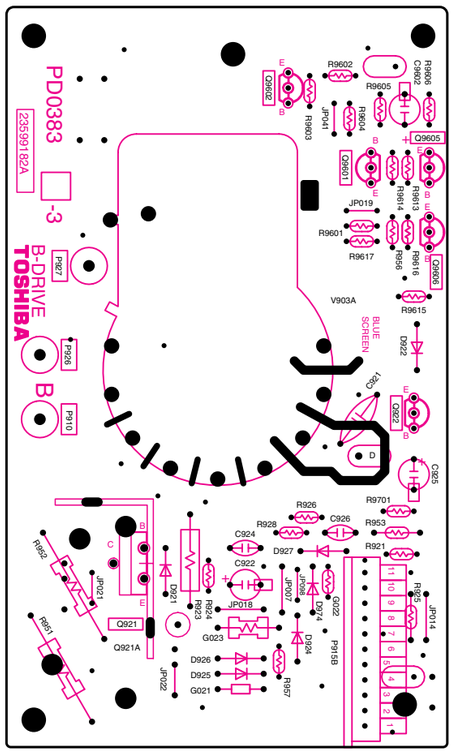
CRT-D GREEN BOARD PD0383D2 (U901B)

BOTTOM (FOIL) SIDE



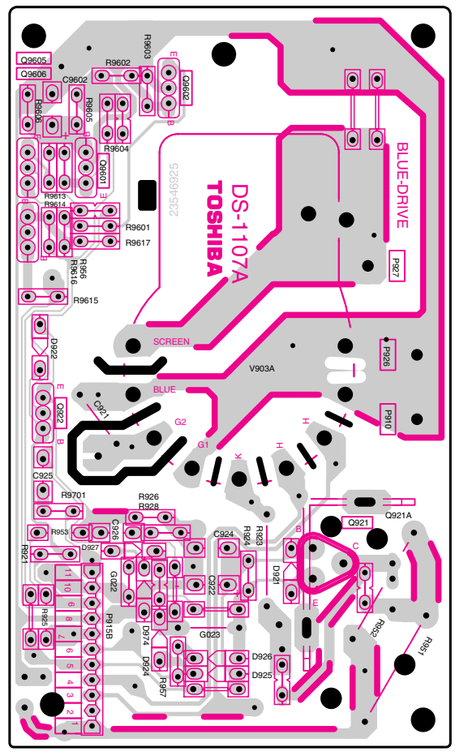
CRT-D BLUE BOARD PD0383D3 (U901C)

TOP (FOIL) SIDE



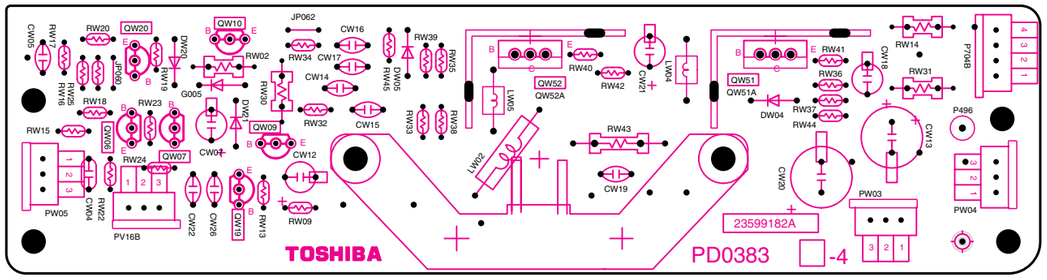
CRT-D BLUE BOARD PD0383D3 (U901C)

BOTTOM (FOIL) SIDE



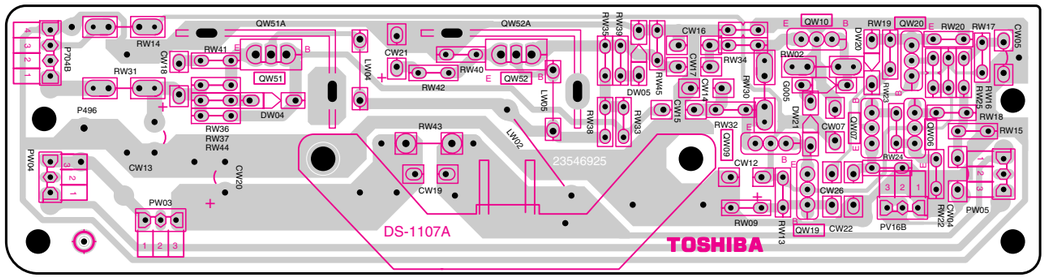
SVM BOARD PD0383D4 (U901D)

TOP (FOIL) SIDE



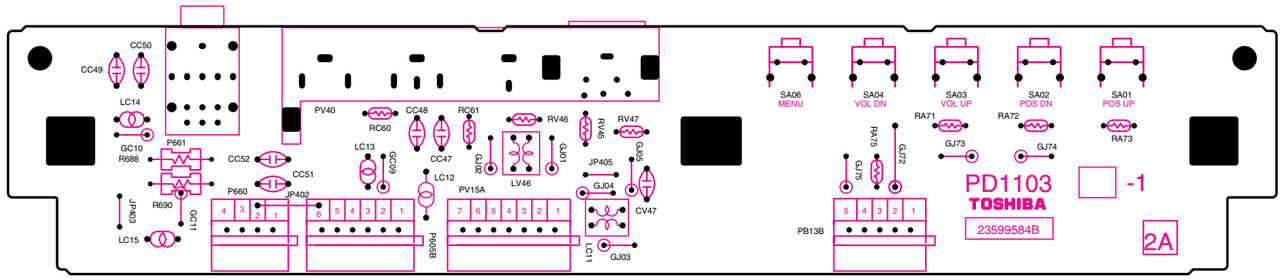
SVM BOARD PD0383D4 (U901D)

BOTTOM (FOIL) SIDE



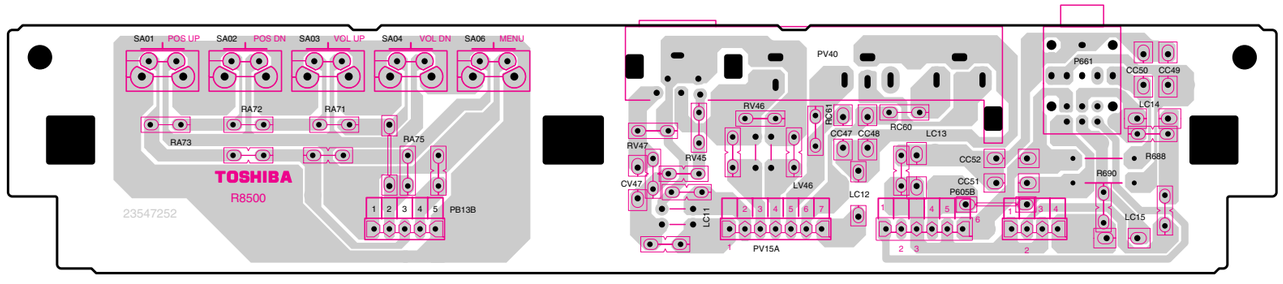
FRONT IN BOARD PD1103F1 (U903A)

TOP (FOIL) SIDE



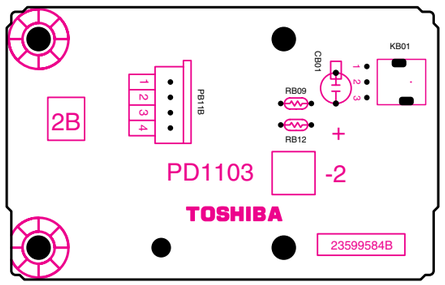
FRONT IN BOARD PD1103F1 (U903A)

BOTTOM (FOIL) SIDE



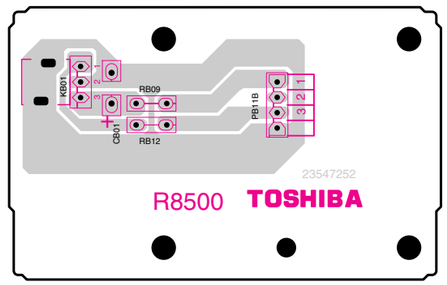
RMT-IN BOARD PD1103F2 (U903A)

TOP (FOIL) SIDE



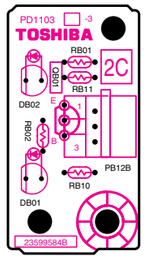
RMT-IN BOARD PD1103F2 (U903A)

BOTTOM (FOIL) SIDE



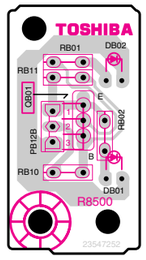
IND BOARD PD1103F3 (U903C)

TOP (FOIL) SIDE



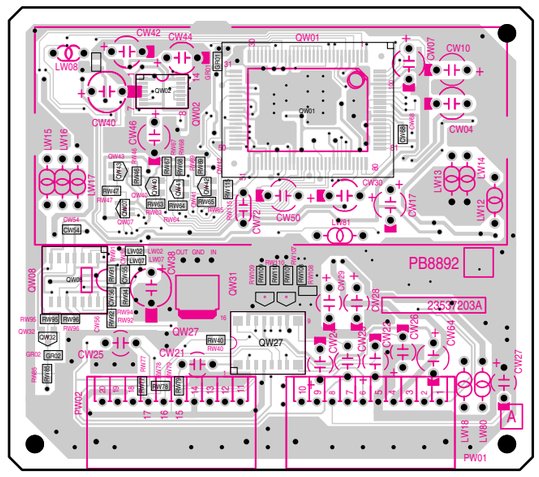
IND BOARD PD1103F3 (U903C)

BOTTOM (FOIL) SIDE



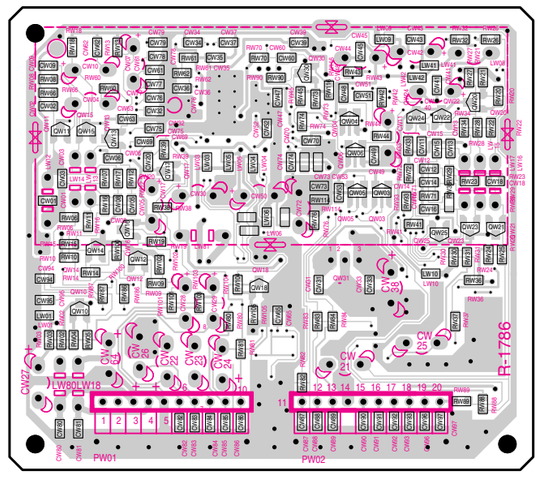
ED WAC BOARD PB8892C (U105)

TOP (FOIL) SIDE



ED WAC BOARD PB8892C (U105)

BOTTOM (FOIL) SIDE



TEXT-P2 BOARD PD0267J (U104)

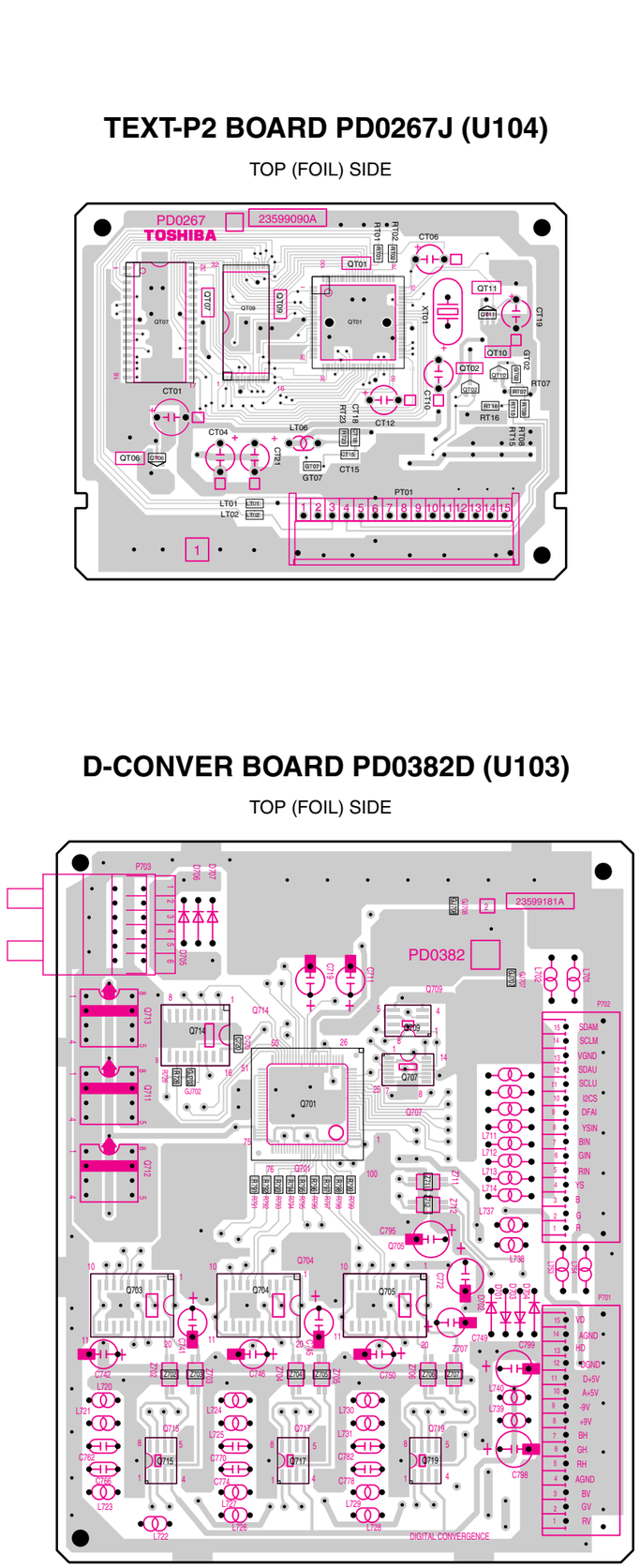
TOP (FOIL) SIDE

TEXT-P2 BOARD PD0267J (U104)

BOTTOM (FOIL) SIDE

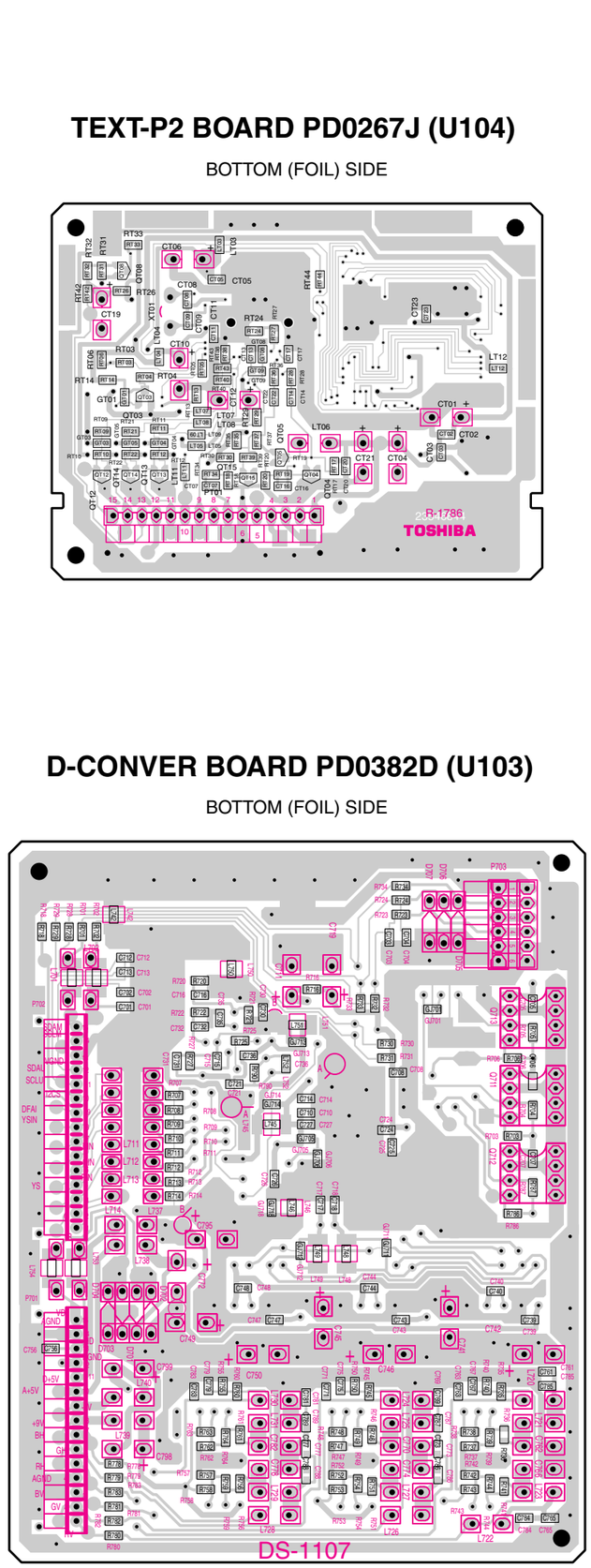
D-CONVER BOARD PD0382D (U103)

TOP (FOIL) SIDE



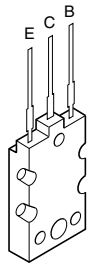
D-CONVER BOARD PD0382D (U103)

BOTTOM (FOIL) SIDE

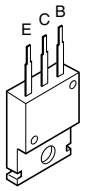


TERMINAL VIEW OF TRANSISTORS

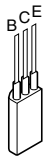
① 2SD2253
(old)
2SC5243



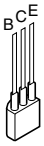
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



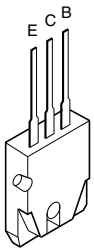
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



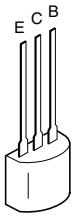
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



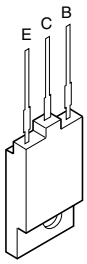
⑤ 2SA1788



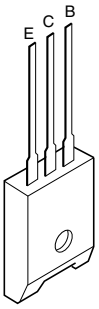
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



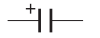
SCHEMATIC DIAGRAM

MODEL : 42PW33Q

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

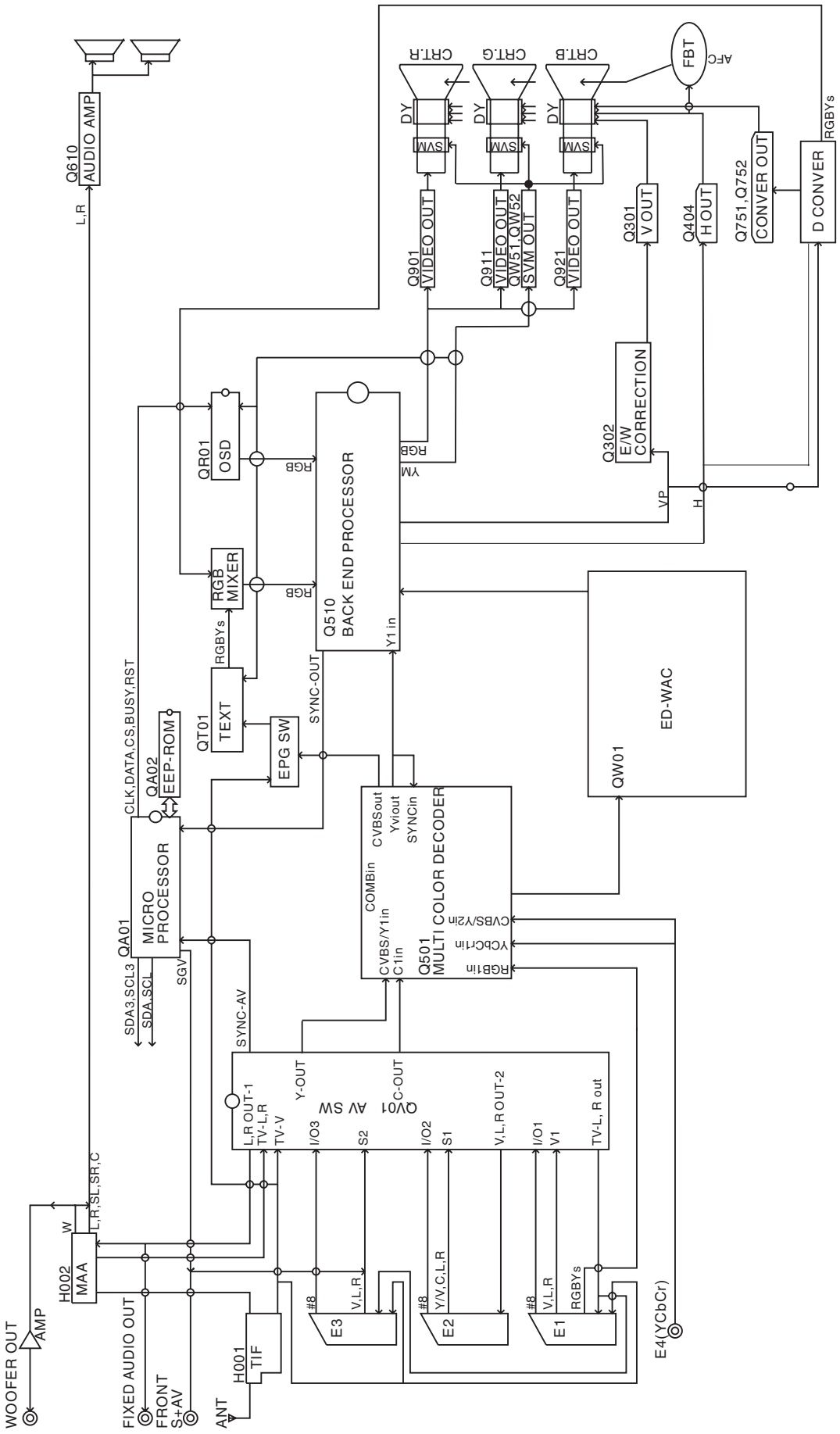
NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
    Electolytic capacitor Mylar capacitor
3. The parts indicated with "⚠" have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage at 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

- SIGNAL Circuit
  - OTHERS [SHEET– 1/7] 1/15
  - M-CON [SHEET– 2/7] 2/15
  - AUDIO [SHEET– 3/7] 3/15
  - AV [SHEET– 4/7] 4/15
  - TUNER/IF/MA [SHEET– 5/7] 5/15
  - BEP [SHEET– 6/7] 6/15
  - MCD [SHEET– 7/7] 7/15
- ED-WAC Circuit 8/15
- POWER Circuit 9/15
- DEF/CONV Circuit
  - DEF [SHEET– 1/2] 10/15
  - CONV [SHEET– 2/2] 11/15
- CRT-D/SVM Circuit 12/15
- D-CONVER Circuit 13/15
- TEXT-P2 Circuit 14/15
- FRONT Circuit 15/15

CIRCUIT BLOCK DIAGRAM



SPECIFICATIONS

MODEL	42PW33Q
Broadcast systems/channels	PAL-I UHF UK21-UK69 PAL-B/G UHF E21-E69 VHF E2-E12, S1-S41 SECAM-L UHF F21-F69 VHF F1-F10, B-Q SECAM-D/K UHF R21-R69 VHF R1-R12
Video Input	PAL, SECAM, NTSC 3.58/4.43
External connections	EXT1 Input 21-pin Scart RGB, A/V EXT2 Input/Output 21-pin Scart A/V, S-video, Selectable output EXT3 Input (back) 21-pin Scart A/V, S-video Input (side) 4-pin S-video Phono jack Video Phono jacks Audio L + R EXT4 Input Phono jacks Y, P_B /C_B , P_R /C_R Phono jacks Audio L + R Fixed Output Phono jacks Audio L + R Output to Active Super Woofer Phono socket
Programme Positions	100
Stereo	Nicam 2 carrier system
Visible Screen Size (approx.)	106cm
Display	16:9
Sound output (at 10% distortion)	Main 10W + 10W
Power consumption as specified in EN60107-1 1997	125W
Standby	<1.5W
Dimensions (approx.)	116cm (H) x 100cm (W) x 42cm (D)
Weight (approx.)	51kg
Headphone socket	3.5mm stereo

* Please refer to owner's manual in detail.

– END –

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN